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THE

HARVARD UNIVERSITY CATALOGUE.

1887-88.

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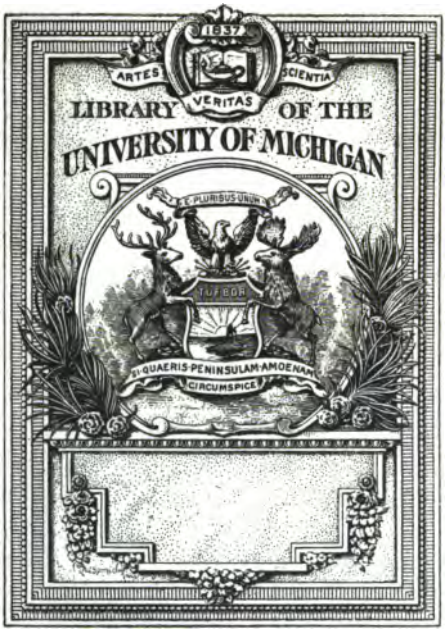

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THE

HARVARD UNIVERSITY

CATALOGUE.

1887-88.

CAMBRIDGE, MASS.
PUBLISHED BY THE UNIVERSITY.

For sale by CHAS. W. SEVER, Cambridge; DAMRELL & UPHAM,
283 Washington St., Boston; F. W. CHRISTERN,
254 Fifth Ave., New York.

1887.

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1888.

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CALENDAR.

The meetings of the PRESIDENT AND FELLOWS *are held on the second and on the last Monday of every month.*

1887.

Sept. 29, Thursday.	**Academic Year begins** in all departments of the University.
Oct. 12, Wednesday.	Stated Meeting of the Board of Overseers.
Oct. 19, Wednesday.	Stated Meeting of the Academic Council.
Dec. 1, Wednesday.	Last day of receiving applications for aid from the Loan Fund.
Dec. 15, Thursday.	Stated Meeting of the Academic Council.

RECESS FROM DEC. 23, 1887, TO JAN. 2, 1888, INCLUSIVE.

1888.

Jan. 10, Tuesday.	Applications from Graduate Students for admission to examination for any degree should be made before this date. See p. 266.
Jan. 11, Wednesday.	Stated Meeting of the Board of Overseers.
Feb. 2, Thursday.	Second half-year begins in the Medical School.
Feb. 13, Monday.	**Second half-year begins** (except in the Medical School).
Feb. 15, Wednesday.	Stated Meeting of the Academic Council.
March 28, Wednesday.	Last day of receiving applications for the Parker, Kirkland, Walker, and Paine Fellowships.
March 31, Saturday.	Last day of re-engaging College Rooms for 1888–89.
March 31, Saturday.	Last day of receiving applications of candidates for Second-Year Honors.

RECESS FROM THE WEDNESDAY BEFORE FAST DAY TO THE FOLLOWING TUESDAY INCLUSIVE.

April 11, Wednesday.	Stated Meeting of the Board of Overseers.
April 25, Wednesday.	Last day of receiving names of competitors for the Boylston Prizes.
May 1, Tuesday.	Last day of receiving dissertations for the Toppan, Dante, Sargent, and Sumner Prizes.

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May 1, Tuesday. Last day of receiving theses of Candidates for the degree of Ph.D. or S.D. See p. 269.

May 3, Thursday. Last day of receiving applications for College Rooms for 1888–89.

May 4, Friday. Assignment of College Rooms for 1888–89.

May 9, Wednesday. Stated Meeting of the Academic Council.

May 10, Thursday. Last day of receiving applications for the Tyndall Scholarship.

May 10, Thursday. Speaking for the Boylston Prizes.

May 15, Tuesday. Last day of receiving applications for the Morgan Fellowships.

May 29, Tuesday. Last day of receiving applications for the Harris and Rogers Fellowships, for College Scholarships, and for aid from the Beneficiary Fund.

May 30, Wednesday. Memorial Day; a holiday.

June 1, Friday. Last day of receiving applications of Professional Students who wish to be candidates for the degree of A.M. with a professional degree. See p. 268.

June 4, Monday. Examinations in the Medical School begin.

June 21, Thursday. Stated Meeting of the Academic Council.

June 22, Friday. Seniors' Class Day.

June 26, 28–30, Tuesday to *Saturday.* Examinations for admission to Harvard College, and to the Lawrence Scientific School.

June 27, Wednesday. **Commencement.** Stated Meeting of the Board of Overseers.

SUMMER VACATION OF THIRTEEN WEEKS, FROM COMMENCEMENT DAY TO SEPTEMBER 27.

June 28, Thursday. Examinations for admission to the Law School, and to the Medical School.

July 2, Monday. Summer course in Botany opens.

July 5, Thursday. Summer courses in Geology and in Physical Training open.

July 9, Monday. Summer courses in Chemistry open.

Sept. 24, Monday. Examinations in the Medical School begin.

Sept. 24, Monday. Examination for admission to the Dental School.

Sept. 25, Tuesday. Examination for advanced standing in Harvard College begins.

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Sept. 25–28, Tuesday to *Friday.* Examinations for admission to Harvard College, and to the Lawrence Scientific School.

Sept. 26, Wednesday. Annual Meeting of the Board of Overseers.

Sept. 27, Thursday. **Academic Year begins** in all departments of the University.

Sept. 27, Thursday. Examination for admission to the Law School.

Sept. 27, 28, Thursday and *Friday.* Examination for admission to advanced standing in the Law School.

Oct. 3, Wednesday. Last day for the *Registration* of students in the Graduate Department,

Oct. 10, Wednesday. Stated Meeting of the Board of Overseers.

Oct. 17, Wednesday. Stated Meeting of the Academic Council.

Oct. 31, Wednesday. Last day of receiving applications of Candidates for Final Honors in 1889.

Nov. 1, Thursday. Last day of receiving dissertations for the Bowdoin, and Chauncey Wright Prizes.

Nov. 1, Thursday. Last day of receiving applications for the Bright and Bigelow Scholarships.

Dec. 1, Saturday. Last day of receiving applications for aid from the Loan Fund.

ABBREVIATIONS.

C.	College House.	H'y.	Holworthy Hall.
D.	Divinity Hall.	M.	Matthews Hall.
G.	Grays Hall.	S.	Stoughton Hall.
H.	Hollis Hall.	T.	Thayer Hall.
H'ke.	Holyoke House.	W.	Weld Hall.

NOTE. — Dormitories within the College grounds are known as Halls; those outside the College grounds, but owned by the University, are called Houses; while others, the property of private owners, are called Blocks or Buildings.

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ADMINISTRATIVE OFFICERS.

THE UNIVERSITY.

President: CHARLES W. ELIOT, LL.D.
Office, 5 University Hall, Cambridge.

Treasurer: EDWARD W. HOOPER, A.B., LL.B.
The office of the Corporation (and Treasurer) is at 50 State St., Boston. Office hours, 10 a.m. to 2 p.m.

Bursar: ALLEN DANFORTH, A.M.
Office, Wadsworth House, Cambridge. Office hours, 9 a.m. to 1 p.m.

Secretary: FRANK BOLLES, LL.B.
Office, 5 University Hall, Cambridge. Office hours, 9 a.m. to 5 p.m.; Saturdays, 9 a.m. to 12 m.

THE ACADEMIC COUNCIL, COLLEGE, AND PROFESSIONAL SCHOOLS.

Secretary of the Academic Council: JAMES MILLS PEIRCE, A.M.
Office, 5 University Hall, Cambridge.

Dean of the College Faculty: CLEMENT L. SMITH, A.M. (absent).

Acting Dean of the College Faculty: C. J. WHITE, A.M.
Office, 5 University Hall, Cambridge. Office hours, Monday and Thursday, 2.30 to 4.30 p.m. Wednesday and Friday, 4 to 5 p.m.

Dean of the Divinity Faculty: C. C. EVERETT, D.D.
Office, 1 Divinity Library. Office hours, Monday, Wednesday, and Friday, 12 m.; Tuesday, Thursday, and Saturday, 10 a.m.

Dean of the Law Faculty: C. C. LANGDELL, LL.D.

Librarian of the Law School: JOHN H. ARNOLD.
The offices of the Dean and Librarian of the Law School are in Austin Hall, Cambridge.

Dean of the Scientific Faculty: WINFIELD S. CHAPLIN, A.M.
Office, 8 Lawrence Scientific School, Kirkland Street, Cambridge.

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Dean of the Medical Faculty: HENRY P. BOWDITCH, A.M., M.D.

Secretary of the Medical Faculty: W. F. WHITNEY, A.B., M.D.

The offices of the Dean and Secretary of the Medical School are at the Medical School, corner of Boylston and Exeter Streets, Boston. Office hours, 12 to 1 p.m., except Saturdays.

Dean of the Dental Faculty: THOMAS H. CHANDLER, A.M., D.M.D.

The Dental School is on North Grove Street, Boston. The office of the Dean is at Hotel Bristol, corner of Boylston and Clarendon Streets, Boston. Office hours, 9 a.m. to 4 p.m.

Dean of the School of Veterinary Medicine: CHARLES P. LYMAN, F.R.C.V.S.

Office at the Veterinary Hospital, 50 Village Street, Boston.

Dean of the Bussey Institution: FRANCIS H. STORER, S.B., A.M.

Superintendent of the Bussey Farm: D. T. HINCKLEY, B.A.S.

The Bussey Institution is in Jamaica Plain. The nearest railway and telegraph station is Forest Hills, on the Boston and Providence Railroad.

COLLECTIONS AND LABORATORIES.

Librarian of the University: JUSTIN WINSOR, LL.D.

Office, Gore Hall, Cambridge.

Director of the Chemical Laboratory: J. P. COOKE, LL.D.

The Chemical Laboratory is in Boylston Hall, Cambridge.

Director of the Jefferson Physical Laboratory: JOSEPH LOVERING, LL.D.

The Jefferson Physical Laboratory is on Holmes Field, Cambridge.

Director of the Astronomical Observatory: E. C. PICKERING, A.M., S.B.

The Observatory is at the corner of Garden and Bond Streets, Cambridge.

Curator of the Museum of Comparative Zoölogy: ALEX. AGASSIZ, LL.D.

Curator of the Peabody Museum of Archæology and Ethnology: FREDELICK W. PUTNAM, A.M.

The Museums are on Oxford Street and Divinity Avenue, Cambridge.

Director of the Herbarium: ASA GRAY, M.D., LL.D.

Director of the Botanic Garden: GEORGE L. GOODALE, M.D.

The Herbarium and Botanic Garden are at the corner of Garden and Linnaean Streets, Cambridge.

Director of the Arnold Arboretum: CHARLES S. SARGENT, A.B.

The Arnold Arboretum is in Jamaica Plain. The nearest railway and telegraph station is Forest Hills, on the Boston and Providence Railroad.

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THE GOVERNMENT OF THE UNIVERSITY.

HARVARD COLLEGE was founded in 1636, by a vote passed at an adjourned meeting (October 28, Old Style) of the General Court of the Colony of Massachusetts Bay which convened on September 8th of that year.

The language of the vote was as follows: —

"The Court agree to give Four Hundred Pounds towards a *School* or *College*, whereof Two Hundred Pounds shall be paid the next year, and Two Hundred Pounds when the work is finished, and the next Court to appoint where and what building."

The ensuing year (1637) the General Court appointed twelve of the most eminent men of the colony (among whom were John Cotton and John Winthrop) "to take order for a college at Newtown." The name, "Newtown," was soon afterwards changed by the General Court to *Cambridge*, in recognition of the English University where many of the colonists had been educated.

The following year (1638) John Harvard, a non-conforming clergyman of England, who had been in the colony about one year, died at Charlestown, leaving half of his whole property and his entire library (about 300 volumes) to the institution. The value of this bequest was more than double the entire sum originally voted by the Court, and it was resolved to open the College at once, and to give it the name of *Harvard*. The first class was formed in the same year.

In 1642, during the administration of the first President, Henry Dunster, the general government of the College and the management of its funds were placed in the hands of a *Board of Overseers* established and empowered by the following Act of the General Court: —

"THE ACT

"ESTABLISHING THE OVERSEERS OF HARVARD COLLEGE.

"*At a General Court held at Boston on the 8th of September, in the Year 1642.*

"WHEREAS, through the good hand of God upon us, there is a College founded in Cambridge, in the county of Middlesex, called HARVARD COLLEGE, for the encouragement whereof this Court has given the sum of four hundred pounds, and also the revenue of the ferry betwixt Charlestown and Boston, and that the well ordering and managing of the said College is of great concernment, —

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"It is therefore ordered by this Court and the authority thereof, that the Governor and Deputy-Governor for the time being, and all the magistrates of this jurisdiction, together with the teaching elders of the six next adjoining towns, — viz. Cambridge, Watertown, Charlestown, Boston, Roxbury, and Dorchester, — and the President of the said College for the time being, shall, from time to time, have full power and authority to make and establish all such orders, statutes, and constitutions as they shall see necessary for the instituting, guiding, and furthering of the said College and the several members thereof, from time to time, in piety, morality, and learning; as also to dispose, order, and manage, to the use and behoof of the said College and the members thereof, all gifts, legacies, bequeaths, revenues, lands, and donations, as either have been, are, or shall be conferred, bestowed, or any ways shall fall or come to the said College.

"And whereas it may come to pass that many of the said magistrates and elders may be absent, or otherwise employed in other weighty affairs, when the said College may need their present help and counsel, — it is therefore ordered, that the greater number of magistrates and elders which shall be present, with the President, shall have the power of the whole. *Provided*, that if any constitution, order, or orders, by them made, shall be found hurtful unto the said College, or the members thereof, or to the weal public, then, upon appeal of the party or parties grieved unto the company of Overseers first mentioned, they shall repeal the said order or orders, if they shall see cause, at their next meeting, or stand accountable thereof to the next General Court." *

The Board of Overseers appears to have been found too large a body to have the immediate direction of the College, and in 1650, through the efforts of President Dunster and others, a charter was granted to the College by the General Court, by which the College was made a *Corporation*, consisting of the President, five Fellows, and a Treasurer, or Bursar, to have perpetual succession by the election of members to supply vacancies, and to be called by the name of the *President and Fellows of Harvard College*. The powers conferred by this Act were accompanied with a provision which required that all Orders and By-Laws of the Corporation should have the consent of the Overseers before they went into operation. This provision was found inconvenient and embarrassing in practice, and in 1657 a law was passed, called "An Appendix to the College Charter," by which the acts of the Corporation were declared to have immediate force and effect, and to be merely "alterable" by the Overseers, to whom the Corporation was to be "responsible."

* This Act is copied from "The General Laws of the Massachusetts Colony, revised and published by order of the General Court in October, 1658"; which was the second editon of the Laws of the Colony, and was printed in 1660. It varies slightly in phraseology from the Act contained in the Records of the General Court, Vol. II. page 24.

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The text of the College Charter, and of the Appendix to the same, is as follows: —

"THE CHARTER

OF THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE, UNDER THE SEAL OF THE COLONY OF MASSACHUSETTS BAY, AND BEARING DATE MAY 31, A.D. 1650.

"Whereas, through the good hand of God, many well-devoted persons have been, and daily are, moved and stirred up to give and bestow sundry gifts, legacies, lands, and revenues, for the advancement of all good literature, arts, and sciences, in HARVARD COLLEGE, in Cambridge, in the county of Middlesex, and to the maintenance of the President and Fellows, and for all accommodations of buildings, and all other necessary provisions that may conduce to the education of the English and Indian youth of this country in knowledge and godliness, —

"It it therefore ordered and enacted by this Court and the authority thereof, that for the furthering of so good a work, and for the purposes aforesaid, from henceforth that the said College in Cambridge, in Middlesex, in New England, shall be a Corporation, consisting of seven persons, to wit, a President, five Fellows, and a Treasurer or Bursar; and that HENRY DUNSTER shall be the first President, SAMUEL MATHER, SAMUEL DANFORTH, Masters of Art, JONATHAN MITCHELL, COMFORT STARR, and SAMUEL EATON, Bachelors of Art, shall be the five Fellows, and THOMAS DANFORTH to be present Treasurer, all of them being inhabitants in the Bay, and shall be the first seven persons of which the said Corporation shall consist; and that the said seven persons, or the greater number of them, procuring the presence of the Overseers of the College, and by their counsel and consent, shall have power, and are hereby authorized, at any time or times, to elect a new President, Fellows, or Treasurer, so oft, and from time to time, as any of the said person or persons shall die or be removed; which said President and Fellows for the time being shall forever hereafter, in name and fact, be one body politic and corporate in law, to all intents and purposes, and shall have perpetual succession, and shall be called by the name of *President and Fellows of Harvard College*, and shall from time to time be eligible as aforesaid; and, by that name, they and their successors shall and may purchase and acquire to themselves, or take and receive upon free gift and donation, any lands, tenements, or hereditaments, within this jurisdiction of the Massachusetts, not exceeding the value of five hundred pounds per annum, and any goods and sums of money whatsoever to the use and behoof of the said President, Fellows, and scholars of the said College; and also may sue and plead, or be sued and impleaded, by the name aforesaid, in all courts and places of judicature within the jurisdiction aforesaid.

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"And that the said President, with any three of the Fellows, shall have power, and are hereby authorized, when they shall think fit, to make and appoint a common seal for the use of the said Corporation. And the President and Fellows, or the major part of them, from time to time, may meet and choose such officers and servants for the College, and make such allowance to them, and them also to remove, and, after death or removal, to choose such others, and to make from time to time such orders and by-laws, for the better ordering and carrying on the work of the College, as they shall think fit; *provided* the said orders be allowed by the Overseers. And also that the President and Fellows, or major part of them, with the Treasurer, shall have power to make conclusive bargains for lands and tenements, to be purchased by the said Corporation for valuable considerations.

"And, for the better ordering of the government of the said College and Corporation,—Be it enacted by the authority aforesaid, that the President and three more of the Fellows shall and may from time to time, upon due warning or notice given by the President to the rest, hold a meeting for the debating and concluding of affairs concerning the profits and revenues of any lands, and disposing of their goods (provided that all the said disposings be according to the will of the donors), and for direction in all emergent occasions, execution of all orders and by-laws, and for the procuring of a general meeting of all the Overseers and Society, in great and difficult cases, and in cases of non-agreement; in all which cases aforesaid, the conclusion shall be made by the major part, the said President having a casting voice, the Overseers consenting thereunto. And that all the aforesaid transactions shall tend to and for the use and behoof of the President, Fellows, scholars, and officers of the said College, and for all accommodations of buildings, books, and all other necessary provisions and furnitures as may be for the advancement and education of youth in all manner of good literature, arts, and sciences.

"And, further, be it ordered by this Court and the authority thereof, that all the lands, tenements, or hereditaments, houses, or revenues, within this jurisdiction, to the aforesaid President or College appertaining, not exceeding the value of five hundred pounds per annum, shall from henceforth be freed from all civil impositions, taxes, and rates; all goods to the said Corporation, or to any scholars thereof, appertaining, shall be exempted from all manner of toll, customs, and excise whatsoever; and that the said President, Fellows, and scholars, together with the servants, and other necessary officers to the said President or College appertaining, not exceeding ten, — viz. three to the President and seven to the College belonging, — shall be exempted from all personal civil offices, military exercises or services, watchings and wardings; and such of their estates, not exceeding one hundred pounds a man, shall be free from all country taxes or rates whatsoever, and none others.

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"In witness whereof, the Court hath caused the seal of the Colony to be hereunto affixed. Dated the one and thirtieth day of the third month, called May, anno 1650.

"[L. S.] THO: DUDLEY, *Governor.*" *

"AN APPENDIX TO THE COLLEGE CHARTER, GRANTED BY AN ACT OF THE GENERAL COURT OF THE COLONY, PASSED A.D. 1657.

"*At a General Court held at Boston, the 14th of October, 1657.*

"In answer to certain proposals presented to this Court by the Overseers of HARVARD COLLEGE, as an appendix to the College Charter, it is ordered, —

"The Corporation shall have power, from time to time, to make such orders and by-laws, for the better ordering, and carrying-on of the work of the College, as they shall see cause, without dependence upon the consent of the Overseers foregoing. *Provided always*, that the Corporation shall be responsible unto, and those orders and by-laws shall be alterable by, the Overseers, according to their discretion.

"And when the Corporation shall hold a meeting, and agreeing with college servants, for making of orders and by-laws, for debating and concluding of affairs concerning the profits and revenues of any lands or gifts, and the disposing thereof (provided that all the said disposals be according to the will of the donors), for managing of all emergent occasions, for the procuring of a general meeting of the Overseers and Society in great and difficult cases, and in cases of non-agreement, and for all other college affairs to them pertaining, — in all these cases the conclusion shall be valid, being made by the major part of the Corporation, the President having a casting vote. *Provided always*, that, in these things also, they be responsible to the Overseers as aforesaid.

"And in case the Corporation shall see cause to call a meeting of the Overseers, or the Overseers shall think good to meet of themselves, it shall be sufficient unto the validity of college acts, that notice be given to the Overseers in the six towns mentioned in the printed law anno 1642, when the rest of the Overseers, by reason of the remoteness of their habitations, cannot conveniently be acquainted therewith." †

The Corporation and the Board of Overseers remain to the present time the governing powers of the University; and this charter with its appendix is now in force precisely as first drafted, notwithstanding that several attempts were made, during the first fifty years of its existence, to alter it

* The above is a copy of the original Charter, engrossed on parchment, under the signature of Governor Dudley, with the Colony seal appendant, in the custody of the President and Fellows of Harvard College. The Charter, varying slightly in phraseology, is also contained in the Records of the General Court, Vol. IV. page 10.

† This act is taken from the Records of the General Court, Vol. IV. page 265.

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or to substitute another in its place. Several new charters which would have essentially changed the organization of the College passed both branches of the Colonial Legislature, but failed to receive the sanction of the King or Governor, and none of the proposed changes ever actually went into operation. The last attempt to obtain a new college charter from the Crown was in 1700, when a draft of a charter was prepared "to be solicited for to his Majesty," which passed both branches of the Legislature, but was never presented to the King.

After the constitution of the College had been for a number of years in this unsettled condition, the General Court in 1707 passed the following vote, reasserting the integrity and force of the Charter of 1650, and it remains "the venerable source of collegiate authority" to this day.

"EXTRACT FROM A RESOLVE OF THE PROVINCIAL GENERAL COURT, PASSED A.D. 1707, DECLARING THE COLLEGE CHARTER OF 1650 NOT REPEALED, AND DIRECTING THE PRESIDENT AND FELLOWS OF THE COLLEGE TO EXERCISE THE POWERS GRANTED BY IT.

"*At a Great and General Court for her Majesty's Province of the Massachusetts Bay, begun and held at Boston upon the 28th of May, 1707, and continued by several prorogations unto the 29th of October following, being the third session.*

"IN COUNCIL.

"*Thursday, December 4, 1707.*

"And inasmuch as the first foundation and establishment of that House [Harvard College, in Cambridge], and the government thereof, had its original from an act of the General Court, made and passed in the year 1650, which has not been repealed or nulled, — the President and Fellows of the said College are directed, from time to time, to regulate themselves according to the rules of the Constitution by the said Act prescribed, and to exercise the powers and authorities thereby granted for the government of that House, and the support thereof.

"*Saturday, December 6, 1707.*

"The Representatives returned the Vote passed in Council, the 4th current, referring to the College, with their concurrence thereunto.

"By his Excellency the Governor, consented to,

"JOSEPH DUDLEY."*

In 1780, when a Constitution was framed for the new Commonwealth of Massachusetts, the following Articles were introduced, securing to the President and Fellows of Harvard College the perpetual enjoyment of all their vested rights and powers, and providing for the organization of the Board of Overseers.

* This resolve is taken from the Records of the General Court, Vol. VIII. page 344.

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"THE ARTICLES OF THE CONSTITUTION OF THE COMMONWEALTH OF MASSACHUSETTS, CONFIRMING AND SECURING TO HARVARD COLLEGE THE PERPETUAL POSSESSION AND ENJOYMENT OF ALL ITS ESTATES, RIGHTS, POWERS, AND PRIVILEGES.

"CHAPTER V.

"SECT. I. — *The University.*

"ARTICLE 1. — Whereas our wise and pious ancestors, so early as the year one thousand six hundred and thirty-six, laid the foundation of HARVARD COLLEGE, in which University many persons of great eminence have, by the blessing of God, been initiated in those arts and sciences which qualified them for public employments both in Church and State; and whereas the encouragement of arts and sciences and all good literature tends to the honor of God, the advantage of the Christian religion, and the great benefit of this and the other United States of America, — It is declared that the *President and Fellows of Harvard College* in their corporate capacity, and their successors in that capacity, their officers and servants, shall have, hold, use, exercise, and enjoy all the powers, authorities, rights, liberties, privileges, immunities, and franchises which they now have, or are entitled to have, hold, use, exercise, and enjoy; and the same are hereby ratified and confirmed unto them, the said President and Fellows of Harvard College, and to their successors, and to their officers and servants respectively, for ever.

"ART. 2. — And whereas there have been at sundry times, by divers persons, gifts, grants, devises of houses, lands, tenements, goods, chattels, legacies, and conveyances, heretofore made either to Harvard College, in Cambridge, in New England, or to the President and Fellows of Harvard College, or to the said College by some other description, under several charters successively, — It is declared that all the said gifts, grants, devises, legacies, and conveyances are hereby for ever confirmed unto the President and Fellows of Harvard College, and to their successors in the capacity aforesaid, according to the true intent and meaning of the donor or donors, grantor or grantors, devisor or devisors.

"ART. 3. — And whereas, by an Act of the General Court of the Colony of Massachusetts Bay, passed in the year one thousand six hundred and forty-two, the Governor and Deputy-Governor for the time being, and all the magistrates of that jurisdiction, were with the President, and a number of the clergy in the said Act described, constituted the Overseers of Harvard College; and it being necessary, in this new Constitution of government, to ascertain who shall be deemed successors to the said Governor, Deputy-Governor, and magistrates,—It is declared that the Governor, Lieutenant-Governor, Council, and Senate of this Commonwealth are and shall be deemed their successors; who with the President of Harvard College for

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the time being, together with the ministers of the Congregational churches in the towns of Cambridge, Watertown, Charlestown, Boston, Roxbury, and Dorchester, mentioned in the said Act, shall be, and hereby are, vested with all the powers and authority belonging or in any way appertaining to the Overseers of Harvard College. *Provided*, that nothing herein shall be construed to prevent the Legislature of this Commonwealth from making such alterations in the government of the said University as shall be conducive to its advantage, and the interests of the republic of letters, in as full a manner as might have been done by the Legislature of the late Province of the Massachusetts Bay."

It remains to notice certain changes in the constitution of the Board of Overseers, relating to eligibility to office, mode of appointment or election, and the connection between the College and the Commonwealth.

The first important change occurred in the year 1810. Under the Act of 1642 and the clauses of the State Constitution of 1780, the Board was composed of the Governor, Lieutenant-Governor, Council, and Senate of Massachusetts, and the Congregational ministers of certain specified towns. In the early days of the College this enumeration included almost all the educated men of the Colony; but in the course of time other classes rose to power and influence, and it became desirable that the Overseers should be able to place among their number other persons eminently qualified for such a position, and that the right to a seat at the Board should be no longer incidental and casual, but be made elective and permanent. Many of the members of the Senate also desired to be relieved of their duties towards the College.* Acordingly in March, 1810, an Act was passed by the State Legislature entitled "An Act to alter and amend the Constitution of the Board of Overseers of Harvard College," and consisting of six sections. By the first it is enacted that "The Governor, Lieutenant-Governor, Counsellors, President of the Senate, and Speaker of the House of Representatives of the Commonwealth, and the President of Harvard College for the time being, with fifteen ministers of Congregational churches and fifteen laymen, all inhabitants within the State, to be elected as is hereafter mentioned, shall for ever hereafter constitute the Board of Overseers of Harvard College."

The second and fifth sections provide for the election of the ministers and laymen, the said elections being made by the ballots of the major part of the Overseers present at a legal meeting.

The third section relates to the choice and duties of a Secretary, the time and manner of meeting, and the duty of presiding at the meetings.

The fourth section specifies when the seat of a minister or of a member shall become vacant, and confers the power of removal from office in certain cases.

* see Quincy's *History of Harvard University*, ii. 294.

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The sixth and last section is as follows: —

"This Act shall be in force when the Overseers of Harvard College, as heretofore constituted, and the President and Fellows of Harvard College, shall agree to accept the provisions in this Act contained."

The principle that the Commonwealth could not change the constitution of the College, without the consent of the Corporation and Overseers, was thus distinctly recognized; and the chartered rights of the College were respected and maintained, at the same time that a more efficient organization was established for the Board of Overseers.

The provisions of this Act were accepted by the President and Fellows on the 16th of March, 1810; and by the Overseers on the 12th of April, in the same year.

In 1812, the Legislature, in direct opposition to a memorial from the Corporation, and without making any provision for the consent of the Corporation or Overseers, repealed this Act, and restored the former organization of the Board; but in 1814, the Act of 1812 was itself repealed, and that of 1810 re-enacted with the addition that the Senate of the Commonwealth should in future form part of the Board of Overseers. This Act also contained the provision that it should not take effect until it was accepted by the Overseers and by the President and Fellows of Harvard College. The Act was accepted by both Boards in March of the same year.

Until 1834, clergymen, to be eligible to the Board of Overseers, must be Congregationalists; but an Act was passed by the Legislature of that year opening the Board to clergymen of all denominations, — the Act to take effect whenever accepted by both branches of the College government. It was accepted by them in 1843.

Another Act, "to change the organization of the Board of Overseers," was passed in 1851. It made the Board to consist of, —

"The Governor, Lieutenant-Governor, President of the Senate, and Speaker of the House of Representatives of the Commonwealth, the Secretary of the Board of Education, and the President and Treasurer of Harvard College, for the time being, together with thirty other persons, as hereinafter defined and described, and no others."

The Act also divided the Board into six equal classes, to be elected and to go out of office in rotation, as described in the following sections: —

"SECT. 3. — The thirty persons, who, in addition to the *ex-officio* members thereof, now constitute the Board of Overseers, shall be divided into three classes of ten each, by lot or otherwise, as they themselves may determine; and the persons of the first class shall go out of office on the day of the next annual meeting of the General Court, and their places be supplied by joint ballot of the Senators and Representatives of the Commonwealth, assembled in one room; and the persons of the second class shall

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go out of office on the day of the annual meeting of the General Court, which will be in the year one thousand eight hundred and fifty-three, and their places be supplied in like manner by joint ballot of the Senators and Representatives; and the persons of the third class shall go out of office on the day of the annual meeting of the General Court, which will be in the year one thousand eight hundred and fifty-four, and their places be supplied in like manner by joint ballot of the Senators and Representatives. *Provided* that the persons of each of the said outgoing classes shall continue in office for two months after the day of the said annual meeting of the General Court, unless their successors shall have been sooner chosen by the Senators and Representatives.

"SECT. 4. — When the Board of Overseers shall have been wholly renewed in the manner prescribed in the foregoing section, the members thereof shall be divided into six equal classes, by subdivision of the previous classes into two each, according to lot or otherwise, as the Board may determine, and having regard to seniority of service among the said previous classes in arranging the order of precedence of the new series; and the said six classes shall thereafter go out of office in rotation, and in order of precedence as thus defined, one at each successive annual meeting of the General Court, and their places be supplied by joint ballot of the Senators and Representatives.

"SECT. 7. — No member of the General Court which elects shall be eligible to a place in the said Board of Overseers; and no person shall be re-eligible for more than one term immediately succeeding that for which he shall have been first elected."

This Act was not to go into effect until "the Board of Overseers, as heretofore constituted, and the President and Fellows of Harvard College respectively, at meetings held for that purpose during the present session of the General Court, shall by vote have assented to the same." The two Boards concurred as required.

Meanwhile an opinion was everywhere gaining ground that it would be better for the community and the interests of learning, as well as for the University, if the power to elect the Overseers were transferred from the Legislature to the graduates of the College. A bill to this effect was introduced into the Senate in 1854, which passed through most of the preliminary stages, but failed to be enacted; partly, as it was thought at the time, from the pressure of business at the close of the session. The purpose was finally carried out in 1865, by the passage of the following Act in relation to the Board of Overseers of Harvard College: —

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"AN ACT

IN RELATION TO THE BOARD OF OVERSEERS OF HARVARD COLLEGE.

"SECTION 1. — The places of the successive classes in the Board of Overseers of Harvard College, and the vacancies in such classes, shall hereafter be annually supplied by ballot of such persons as have received from the College a degree of Bachelor of Arts, or Master of Arts, or any honorary degree, voting on Commencement Day in the city of Cambridge; such election to be first held in the year eighteen hundred and sixty-six; *provided, however*, that no member of the Corporation, and no officer of government or instruction in said College, shall be eligible as an Overseer, or entitled to vote in the election of Overseers; and *provided, further*, that no person who has received from said College the degree of Bachelor of Arts shall be entitled to vote for Overseers before the fifth annual election after the graduation of his class.

"SECT. 2. — The Board of Overseers shall annually appoint one principal and two or more assistant-inspectors of polls, who shall, on Commencement Day, from the hour of ten in the forenoon to the hour of four in the afternoon, at some place in said city of Cambridge, fixed by said Board, receive the votes for Overseers, and they shall sort and count such votes, and make public declaration thereof, after the closing of the polls; and said inspectors shall be provided with a complete list of the persons qualified to vote at such election, and no person shall vote until the inspectors find and check his name upon such list. The names of the persons voted for, the number of votes received for each person, and the vacancy or place in said Board for which he is proposed, shall be entered in words at length, by said inspectors, upon a record kept by them for that purpose, which shall, after such election, be forthwith made up, signed, and delivered by them to the Board of Overseers. The persons who shall receive the highest number of votes for the places or vacancies in said Board shall, to the number of Overseers to be elected, be deemed and shall be declared by said Board elected to be members thereof.

"SECT. 3. — The Board of Overseers shall give notice of the place of the polls, the hours during which they are open, and the number of Overseers to be elected, by publishing the same at least ten days before Commencement Day in some newspaper printed in the city of Boston.

"SECT. 4. — The terms of office of the existing classes of Overseers are extended to the close of Commencement Day of the year in which such terms severally expire; the terms of office of the classes hereafter elected shall successively expire at the close of Commencement Day each year in their order; and the persons elected Overseers on any Commencement Day shall supply the places of the class of Overseers which goes out of office at the close of that day, and the vacancies then existing in said Board.

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"SECT. 5. — Whenever there shall be a failure on Commencement Day to supply any places or vacancies in the Board of Overseers, the same may be filled by vote of the remaining Overseers; and any person elected to fill a vacancy shall be deemed to be a member of and to go out of office with the class to which his predecessor belonged.

"SECT. 6. — The Governor, Lieutenant-Governor, President of the Senate, Speaker of the House of Representatives, and Secretary of the Board of Education shall not be *ex-officio* members of the Board of Overseers of Harvard College after this Act shall be in force.

"SECT. 7. — This Act shall be in force when the Board of Overseers and the President and Fellows of Harvard College, respectively, at meetings held for that purpose, shall by vote have assented to the same.

"SECT. 8. — This Act shall not be construed as in the nature of a contract or a charter, but may at any time be repealed at the pleasure of the Legislature." [April 28, 1865.]

This Act, having been duly assented to by the Overseers on the 21st of September, 1865, and by the President and Fellows on the 15th of December of the same year, is now the law.

In the Act of 1810 it is specified that the members of the Board of Overseers shall be "all inhabitants within the State." This restriction was removed by the following Act in 1880: —

"AN ACT

TO PROVIDE FOR THE ELIGIBILITY OF PERSONS NOT INHABITANTS OF THIS COMMONWEALTH AS OVERSEERS OF HARVARD COLLEGE.

"SECTION I. — Persons not inhabitants of this Commonwealth and otherwise qualified shall be eligible as Overseers of Harvard College.

"SECTION II. — This Act shall take effect on its acceptance by the President and Fellows and by the Board of Overseers of Harvard College, respectively, at meetings held for that purpose." [March 5, 1880.]

This Act was accepted by the President and Fellows on May 31, 1880, and by the Overseers on June 2, 1880.

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STATUTES OF THE UNIVERSITY.

1. THE UNIVERSITY. Harvard University comprehends the following departments: Harvard College, the Divinity School, the Law School, the Medical School, the Dental School, the Lawrence Scientific School, the Museum of Comparative Zoölogy, the Bussey Institution (a School of Agriculture), the College Library, the Graduate Department, the School of Veterinary Medicine, and the Astronomical Observatory. The Peabody Museum of American Archaeology and Ethnology is a constituent part of the University; but its relations to the University are affected by peculiar provisions.

2. PRESIDENT. It is the duty of the President of the University to call meetings of the Corporation, and preside at the same; to act as the ordinary medium of communication between the Corporation and the Overseers, and between the Corporation and the Faculties; to make an annual report to the Overseers on the general condition of the University; to preside on public academic days; to preside over the several Faculties; to direct the official correspondence of the University; to acquaint himself with the state, interests, and wants of the whole institution; and to exercise a general superintendence over all its concerns. For the better discharge of these duties, he must live in Cambridge.

3. TREASURER. The Treasurer has the custody of all the property of the University. He is required to submit his accounts, and all evidences of the property under his charge, to the committees of inspection appointed by the Corporation and Overseers severally, and to make annually to the Overseers a statement of the receipts and expenditures of the University.

The Bursar and the Superintendent of Buildings are under the direction of the Treasurer, and are his agents in Cambridge.

All officers who are intrusted with property belonging to the University are required to keep inventories of the same, which are subject to the inspection of the Treasurer; and to have all such property designated as University property by suitable marks.

4. TENURES OF OFFICE. In all departments of the University, professorships are held without express limitation of time. Assistant professorships are held for five years, and tutorships for not more than three years. At the end of the term of an assistant professor or tutor, his connection with the University ceases, unless he be reappointed. Lecturers are appointed for not more than one year. Instructors are appointed for such terms as convenience may require. Tutors and instructors are re-

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sponsible, in regard to their subjects and methods of teaching, to the professors in their respective branches of study. Proctors are appointed to assist the Faculties in the conduct of examinations, and in the preservation of order within the University precincts. All officers of instruction and government are subject to removal for inadequate performance of duty, or for misconduct.

5. Academic Council. The Academic Council consists of the President, Professors, and Assistant Professors of the University. The Council is empowered to recommend to the President and Fellows candidates for the degrees of Master of Arts, Doctor of Science, and Doctor of Philosophy.

6. Faculties. Harvard College and the several Schools of the University are each under the immediate charge of a Faculty. All professors, assistant professors, and tutors, and all instructors appointed for a term longer than one year are members of the Faculty of the college or school in which they teach, unless exempted by a peculiar tenure of office, or by a special vote of the Corporation and Overseers.

7. Deans. Each Faculty has a Dean, who is appointed by the Corporation, with the consent of the Overseers, from among the members of that Faculty. It is the duty of a Dean to conduct the correspondence of his college or school, to superintend all its clerical and administrative business; to prepare the business for the meetings of his Faculty, to execute its orders and regulations, to preside at its meetings in the absence of the President, and to make an annual report to the President. To assist the dean of a college or school in the discharge of these duties, the Corporation appoints, when necessary, a Registrar or Secretary.

8. Academic Year. The Academic year begins on the Thursday following the last Wednesday in September. The annual Commencement is held on the last Wednesday in June. The vacation begins at Commencement, and ends on the last Wednesday in September. The Christmas recess begins on the 23d of December, and ends on the 2d of January. The Spring recess begins on the Wednesday before Fast Day, and ends on the Tuesday after Fast Day. Thanksgiving Day and the thirtieth day of May are holidays.

9. Degrees. The ordinary degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Agricultural Science, Bachelor of Divinity, Bachelor of Laws, Doctor of Medicine, Doctor of Dental Medicine, Doctor of Veterinary Medicine, Civil Engineer, and Mining Engineer are conferred, after recommendation by the several Faculties, by vote of the Corporation, with the consent of the Overseers. The ordinary degrees of Master of Arts, Doctor of Philosophy, and Doctor of Science, are conferred, after recommendation of the Academic Council, by vote of the Corporation, with the consent of the Overseers. It is required that

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no candidates for the ordinary degrees be recommended, except after thorough public examination, and a residence at the University of at least one year. There are four grades of the degree of Bachelor of Arts, two grades of the degree of Bachelor of Laws, and three grades of the degree of Bachelor of Science and of the degree of Mining Engineer.

Honorary degrees are conferred by vote of the Corporation, with the consent of the Overseers. The degrees conferred by the University are announced at Commencement.

10. Students not Candidates for a Degree. Persons who are not candidates for a degree may be admitted to any of the courses of instruction given in the University, provided that they satisfy the appropriate Faculty of their fitness to pursue the particular courses which they elect. The several Faculties have the right to deprive any such student of his privileges, if he abuse or fail to use them.

11. Bonds and Registration. Every student must, on his admission to any department of the University, give a bond to the Treasurer or the Bursar, in such a sum as shall from time to time be determined by the Corporation, for the payment of his dues to the University; or he must make payment in advance, or secure payment by a deposit. He must then enter his name, and such other particulars as may be required by the several Faculties, respectively, with the Dean of his Faculty.

12. Discipline. The respective Faculties have authority to impose fines and levy assessments for damage done to property; to inflict, at their discretion, the penalties of admonition, suspension, dismission, and expulsion; and to use all other appropriate means of discipline; but no student shall be separated from the University, either temporarily or permanently, by a vote of less than two thirds of the members of his Faculty present and voting thereon.

Suspension is a separation from the University for a fixed period of time. It may be accompanied with a requirement of residence in a specified place, and of the performance of specified tasks. Dismission closes a student's connection with the University, without necessarily precluding his return. Expulsion is the highest academic censure, and is a final separation from the University.

STATUTES AFFECTING THE SEVERAL DEPARTMENTS OF THE UNIVERSITY.

The College.

13. Parietal Committee. The proctors and the officers of instruction who reside within the college walls, or in buildings to which the superintendence of the College extends, constitute the Parietal Commit-

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tee. It is their duty to prevent offences against order and decorum within the College precincts.

14. Registrar. It is the duty of the Registrar of the College, under the general direction of the Dean, to superintend all admission examinations and the registration of members of the College, to keep a record of the votes and orders of the Faculty, and to furnish certified copies of the same; and to act as chairman of the Parietal Committee, unless specially exempted therefrom, to keep a record of its proceedings, to execute its votes, and to assign members of the Committee to duty.

15. Religious Services. Daily prayers are held in the Chapel during term time.

Seats are provided, at the expense of the College, for all students who attend the Sunday services of the several religious denominations having established places of worship in the immediate vicinity of the College.

The Divinity School.

16. No assent to the peculiar doctrines or practices of any denomination of Christians is required of instructors or students in the Divinity School.

The College Library.

17. The College Library in Gore Hall is for the use of the whole University. Its privileges are also granted, under special regulations, to persons not connected with the University.

The general control and oversight of the Library is committed to the Council of the Library, consisting of the President, the Librarian, and six other persons, who are appointed by the Corporation, with the consent of the Overseers, for the term of three years. Any vacancy occurring in the Council is filled in the same manner for the unexpired portion of the term.

It is the duty of the Council to make rules for the administration of the Library; to direct the purchase of books, to the extent of the funds applicable for that purpose; and to visit and inspect the Theological, Law, Medical, and other special libraries.

The Librarian and the Assistant Librarians are chosen in the same manner as officers of instruction and government, and are under the same liability to removal.

The Librarian has the care and custody of the Library. It is his duty to superintend its internal administration, enforce the rules, and conduct the correspondence; and to make annually a written report on the condition of the Library to the Library Committee of the Overseers and to the Corporation.

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CHARLES WILLIAM ELIOT, LL.D., 17 Quincy St., Cambridge.

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MARTIN BRIMMER, A.B., 47 Beacon St., Boston.
JOHN QUINCY ADAMS, A.B., Quincy.
WILLIAM CROWNINSHIELD ENDICOTT, LL.D., Washington, D. C.
ALEXANDER AGASSIZ, LL.D., 36 Quincy St., Cambridge.

TREASURER.

EDWARD WILLIAM HOOPER, A.B., LL.B., Reservoir St., Cambridge.

OVERSEERS.

The PRESIDENT and TREASURER of the University, *ex officio*, and the following persons by election: —

1888.†

SAMUEL ABBOTT GREEN, A.M., M.D., 72 Harrison Ave., Boston.
CHARLES FRANCIS ADAMS, Jr., A.B., Quincy.
WILLIAM GOODWIN RUSSELL, LL.D., 178 Beacon St., Boston.
LEVERETT SALTONSTALL, A.M., Chestnut Hill.
MOORFIELD STOREY, A.M., Brookline.

1889.

ANDREW PRESTON PEABODY, D.D., LL.D., 11 Quincy St., Cambridge.
FRANCIS MINOT WELD, A.M., M.D., 28 W. 20th St., New York, N.Y.
SOLOMON LINCOLN, A.M., LL.B., 344 Beacon St., Boston.
ROGER WOLCOTT, A.B., LL.B., 173 Commonwealth Ave., Boston.
PHILLIPS BROOKS, D.D., 233 Clarendon St., Boston.

* The legal title of the Corporation is "PRESIDENT AND FELLOWS OF HARVARD COLLEGE."

† The term expires, in each case, on Commencement Day of the year indicated. See p. 22, sect. 4,

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1890.

CHARLES RUSSELL CODMAN, A.M., LL.B., *President*, 57 Marlborough St., Boston.
RICHARD MANNING HODGES, A.M., M.D., 408 Beacon St., Boston.
ROBERT DICKSON SMITH, A.M., LL.B., 48 Mt. Vernon St., Boston.
HENRY CABOT LODGE, LL.B., PH.D., Nahant.
CHARLEMAGNE TOWER, A.M., 1525 Spruce St., Philadelphia, Pa.

1891.

JOHN TORREY MORSE, Jr., A.B., 16 Fairfield St., Boston.
EDWIN PLINY SEAVER, A.M., LL.B., Newton Highlands.
JOHN FISKE, A.M., LL.B., 22 Berkeley St., Cambridge.
GEORGE OTIS SHATTUCK, A.B., LL.B., 166 Beacon St., Boston.
THOMAS JEFFERSON COOLIDGE, A.M., 93 Beacon St., Boston.

1892.

HENRY LEE, A.M., Brookline.
ROBERT McNEIL MORSE, A.B., Prince St., Jamaica Plain.
JAMES FREEMAN CLARKE, D.D., Woodside Ave., Jamaica Plain.
JOHN OSBORNE SARGENT, A.M., 28 E. 35th St., New York, N. Y.
HENRY WARE PUTNAM, A.M., LL.B., 130 Highland St., Roxbury.

1893.

JAMES RUSSELL LOWELL, D.C.L., LL.D., Southborough.
HENRY PICKERING WALCOTT, A.B., M.D., 11 Waterhouse St., Cambridge.
FRANCIS CABOT LOWELL, A.B., 159 Beacon St., Boston.
THEODORE LYMAN, A.B., S.B., Brookline.
SAMUEL HOAR, A.B., Concord.

SECRETARY OF THE BOARD OF OVERSEERS.*

ALEXANDER McKENZIE, D.D., 12 Garden St., Cambridge.

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	RESIDENCE.‡
CHARLES WILLIAM ELIOT, LL.D., PRESIDENT,	17 Quincy St.
ANDREW PRESTON PEABODY, D.D., LL.D., *Preacher to the University, and Plummer Professor of Christian Morals, Emeritus*,	11 Quincy St.

* The SECRETARY OF THE UNIVERSITY, to whom requests for information, etc., should be addressed, is FRANK BOLLES, LL.B., 5 University Hall, Cambridge, Mass.

† Arranged, with the exception of the President, on the basis of collegiate seniority.

‡ For abbreviations, see page 10. The residence is in Cambridge, unless otherwise stated. No residence is given, if the officer is absent for the year.

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OLIVER WENDELL HOLMES, M.D., LL.D., LITT.D., D.C.L., *Professor of Anatomy, Emeritus*, 296 Beacon St., Boston.

ASA GRAY, M.D., S.D., LL.D., *Fisher Professor of Natural History, and Director of the Herbarium*, Botanic Garden.

THOMAS MOTLEY, A.M., *Instructor in Farming*, Jamaica Plain.

FRANCIS BOWEN, LL.D., *Alford Professor of Natural Religion, Moral Philosophy, and Civil Polity*, 9 Follen St.

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HENRY WARREN TORREY, LL.D., *McLean Professor of Ancient and Modern History, Emeritus*, 20 Oxford St.

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HENRY JACOB BIGELOW, M.D., LL.D., *Professor of Surgery, Emeritus*, 52 Beacon St., Boston.

JAMES RUSSELL LOWELL, D.C.L., LL.D., *Smith Professor of the French and Spanish Languages and Literatures, and Professor of Belles Lettres, Emeritus*, Southborough.

——— ———, *Smith Professor of the French and Spanish Languages and Literatures, and Professor of Belles Lettres.*

JOSIAH DWIGHT WHITNEY, LL.D., *Sturgis Hooper Professor of Geology*, 2 Divinity Ave.

FRANCIS MINOT, A.M., M.D., *Hersey Professor of the Theory and Practice of Physic*, 65 Marlborough St., Boston.

WOLCOTT GIBBS, M.D., LL.D., *Rumford Professor and Lecturer on the Application of Science to the Useful Arts, Emeritus*, Newport, R. I.

——— ———, *Professor of Applied Zoölogy.*

FRANCIS JAMES CHILD, PH.D., LL.D., *Professor of English*, 67 Kirkland St.

GEORGE MARTIN LANE, PH.D., *Pope Professor of Latin*, 42 Quincy St.

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HENRY WILLARD WILLIAMS, A.M., M.D., *Professor of Ophthalmology*, 15 Arlington St., Boston.

SERENO WATSON, PH.D., *Curator of the Herbarium*, Botanic Garden.

THOMAS HENDERSON CHANDLER, A.M., D.M.D., *Professor of Mechanical Dentistry, and Dean of the Dental Faculty*, Hotel Bristol, Boston.

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JOSEPH HENRY THAYER, D.D., *Bussey Professor of New Testament Criticism and Interpretation*, 67 Sparks St.

CHARLES FRANKLIN DUNBAR, A.B., *Professor of Political Economy*, 14 Highland St.

WILLIAM WATSON GOODWIN, PH.D., LL.D., *Eliot Professor of Greek Literature*, 5 Follen St.

CHRISTOPHER COLUMBUS LANGDELL, LL.D., *Dane Professor of Law, and Dean of the Law Faculty*, 37 Quincy St.

FERDINAND BÔCHER, A.M., *Professor of Modern Languages*, 12 Holyoke Pl.

DAVID WILLIAMS CHEEVER, A.B., M.D., *Professor of Surgery*, 239 Boylston St., Boston.

——— ———, *McLean Professor of Ancient and Modern History.*

JAMES BRADLEY THAYER, A.B., LL.B., *Professor of Law*, 5 Phillips Pl.

ADAMS SHERMAN HILL, A.B., LL.B., *Boylston Professor of Rhetoric and Oratory*, Reservoir St.

JAMES MILLS PEIRCE, A.M., *Perkins Professor of Astronomy and Mathematics, and Secretary of the Academic Council*, 4 Kirkland Pl.

JAMES CLARKE WHITE, A.B., M.D., *Professor of Dermatology*, 259 Marlborough St., Boston.

JUSTIN WINSOR, LL.D., *Librarian*, 74 Sparks St.

FRANCIS HUMPHREYS STORER, S.B., A.M., *Professor of Agricultural Chemistry, and Dean of the Bussey Institution*, 182 Boylston St., Boston.

JAMES BRADSTREET GREENOUGH, A.B., *Professor of Latin*, Riedesel Ave.

BENNETT HUBBARD NASH, A.M., *Professor of Italian and Spanish*, 252 Beacon St., Boston.

——— ———, *Professor of Topographical Engineering.*

ARTHUR SEARLE, A.M., *Assistant Professor of Astronomy*, 41 Concord Ave.

CRAWFORD HOWELL TOY, LL.D., *Hancock Professor of Hebrew and other Oriental Languages, and Dexter Lecturer on Biblical Literature.*

——— ———, *Jackson Professor of Clinical Medicine.*

JOHN CHIPMAN GRAY, A.M., LL.B., *Royall Professor of Law*, 176 Beacon St., Boston.

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CHARLES HERBERT MOORE, *Instructor in Drawing and Principles of Design*, 19 Follen St.

FREDERICK WARD PUTNAM, A.M., *Peabody Professor of American Archaeology and Ethnology, and Curator of the Peabody Museum*, 32 Irving St.

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REGINALD HEBER FITZ, A.M., M.D., *Shattuck Professor of Pathological Anatomy*, 18 Arlington St., Boston.

GEORGE HERBERT PALMER, A.M., *Professor of Philosophy*, S. 27.

WILLIAM LAMBERT RICHARDSON, A.M., M.D., *Professor of Obstetrics*, 225 Commonwealth Ave., Boston.

EDWARD CHARLES PICKERING, A.M., S.B., *Paine Professor of Practical Astronomy, and Director of the Observatory*, Observatory.

JOHN TROWBRIDGE, S.D., *Professor of Physics*, Linnaean St.

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GEORGE ALONZO BARTLETT, *Assistant Professor of German*, Beck Building 27.

THOMAS DWIGHT, A.B., M.D., *Parkman Professor of Anatomy*, 235 Beacon St., Boston.

WILLIAM GILSON FARLOW, A.M., M.D., *Professor of Cryptogamic Botany*, H'ke 29.

THOMAS FILLEBROWN, M.D., D.M.D., *Professor of Operative Dentistry*, 74 Boylston St., Boston.

WILLIAM JAMES, M.D., *Professor of Philosophy*, 18 Garden St.

GEORGE FRANKLIN GRANT, D.M.D., *Instructor in Treatment of Cleft Palate and Cognate Diseases*, 86 Pinckney St., Boston.

CHARLES LORING JACKSON, A.M., *Professor of Chemistry*, H'y 11.

CHARLES WILSON, D.M.D., *Instructor in Orthodontia*, 47 Allen St., Boston.

EDWARD STICKNEY WOOD, A.M., M.D., *Professor of Chemistry*, 14 Chauncy St.

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——— ———, *Parkman Professor of Theology.*

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EPHRAIM EMERTON, PH.D., *Winn Professor of Ecclesiastical History*, 58 Shepard St.

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CHARLES ROCKWELL LANMAN, PH.D., *Professor of Sanskrit*, H. 21.

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EDWARD STEVENS SHELDON, A.B., *Assistant Professor of Romance Philology*, 27 Hurlbut St.
ADOLPHE COHN, LL.B., A.M., *Assistant Professor of French*, 56 Buckingham St.
JAMES LAURENCE LAUGHLIN, PH.D., *Assistant Professor of Political Economy*, 101 Brattle St.
SILAS MARCUS MACVANE, A.B., *Professor of History*, 34 Kirkland St.
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FRANCIS HENRY WILLIAMS, M.D., *Assistant Professor of Materia Medica and Therapeutics*, Hotel Victoria, Boston.
EDWARD CORNELIUS BRIGGS, M.D., D.M.D., *Instructor in Dental Materia Medica*, 1 Mt. Vernon St., Boston.
LEBARON RUSSELL BRIGGS, A.M., *Assistant Professor of English*, 140 Brattle St.
EDWIN HERBERT HALL, PH.D., *Instructor in Physics*, 5 Avon St.
DAVID GORDON LYON, PH.D., *Hollis Professor of Divinity*, 7 Lowell St.
HENRY PREBLE, A.B., *Assistant Professor of Greek and Latin*, M. 7.
JOSIAH ROYCE, PH.D., *Assistant Professor of Philosophy*, 20 Lowell St.
DUDLEY ALLEN SARGENT, A.M., M.D., *Assistant Professor of Physical Training, and Director of the Hemenway Gymnasium*, 24 Arrow St.
KUNO FRANCKE, PH.D., *Assistant Professor of German*, S. 21.

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CHARLES POMEROY PARKER, A.B., *Tutor in Greek and Latin*, 20 Berkeley St.
BENJAMIN OSGOOD PEIRCE, PH.D., *Assistant Professor of Mathematics and Physics*, 51 Oxford St.
FRANK BOLLES, LL.B., *Secretary of the University*, 6 Berkeley St.
JACOB CANSLER PATTON, A.B., *Proctor*, T. 7.
BARRETT WENDELL, A.B., *Instructor in English*, G. 18.
HAROLD WHITING, PH.D., *Instructor in Physics*, 8 Garden St.
EDWARD CHANNING, PH.D., *Instructor in History*, 1 Brewster Pl.
FRANK WILLIAM TAUSSIG, LL.B., PH.D., *Assistant Professor of Political Economy*, H'y 20.
ARTHUR LAWRENCE HALL, A.B., *Proctor*, H'ke 7.
ALBERT BUSHNELL HART, PH.D., *Instructor in History*, H. 7.
OLIVER WHIPPLE HUNTINGTON, PH.D., *Instructor in Mineralogy and Chemistry*, 12 Ware St.
HENRY EDWARDS SCOTT, A.B., *Proctor*, W. 7.
CHARLES HALL GRANDGENT, A.B., *Tutor in Modern Languages*, 19 Wendell St.
WILLIAM FRANCIS GANONG, A.M., *Proctor*, C. 56.
ARTHUR GILLESPIE HATCH, A.M., LL.B., *Proctor*, Read's Block 4.
GEORGE DUNNING MOORE, A.B., *Proctor*, H'ke 33.
WILLIAM WHITING NOLEN, A.M., *Proctor*, Little's Block 6.
ERNEST CHARLES SMITH, A.B., *Proctor*, D. 15.
OTTO RHEINHARD HANSEN, A.B., *Proctor*, Hilton Block 4.
MARLAND COGSWELL HOBBS, A.B., *Proctor*, C. 5.
GEORGE READ NUTTER, A.B., *Proctor*, Manter Block 7.
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WALTER ALEXANDER, A.B., *Proctor*, Read's Block 24,
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GEORGE POPE FURBER, A.B., *Proctor*, T. 54.
JOHN HENRY GRAY, A.B., *Proctor*, C. 17.
GEORGE DIMMICK LATIMER, *Proctor*, Felton Building 17.

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ANNUAL APPOINTMENTS FOR 1887–88.

Preachers to the University.*

EDWARD EVERETT HALE, D.D., 39 Highland St., Roxbury.
PHILLIPS BROOKS, D.D., 233 Clarendon St., Boston.
ALEXANDER McKENZIE, D.D., 12 Garden St.
GEORGE ANGIER GORDON, A.B., Old South Parsonage, Boylston St., Boston.

Harvard College.

DANIEL DENISON SLADE, A.B., M.D., *Lecturer on Comparative Osteology*, Chestnut Hill.
FREEMAN SNOW, PH.D., *Instructor in International Law*, Shepherd Block 1.
ROBERT SANDERSON, *Instructor in French*, 46 Concord Ave.
WILLIAM BRANFORD SHUBRICK CLYMER, A.B., *Instructor in English*, Channing St.
JOHN JOSEPH HAYES, *Instructor in Elocution*, Little's Block 19.
JOHN ELIOT WOLFF, A.B., *Instructor in Petrography*, 20 Buckingham St.
HAROLD NORTH FOWLER, PH.D., *Instructor in Greek, and in Greek Archaeology*, H'y 3.
CARL FRIEDRICH RICHARD HOCHDÖRFER, *Instructor in German*, 26 Wallace St.
MORRIS HICKY MORGAN, PH.D., *Instructor in Greek*, 37 Concord Ave.
FRANK NELSON COLE, PH.D., *Tutor in Mathematics*.
GEORGE MOREY RICHARDSON, PH.D., *Instructor in Latin*, 104 Mt. Auburn St.
HOWARD AYERS, S.B., PH.D., *Instructor in Zoölogy*, 23 Norfolk St.
EDWARD CUMMINGS, A.M., *Instructor in English*, T. 29.
ERNEST LEE CONANT, A.B., *Instructor in Forensics*, M. 40.
JAMES RICHARD JEWETT, A.B., *Instructor in Semitic Languages*, 54 Concord Ave.
GEORGE WILLIAM SAWIN, A.M., *Instructor in Mathematics*, S. 7.

Divinity School.

EDWARD NAPOLEON KIRBY, *Instructor in Elocution*, 71 Sacramento St.

* The address of each of the Preachers during the term of his residence at the University is No. 1 Wadsworth House.

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Law School.

WILLIAM SCHOFIELD, A.M., LL.B., *Instructor in Torts*, 688 Main St.

Lawrence Scientific School.

JOHN CASSAN WAIT, C.E., S.M., *Instructor in Surveying and Drawing*, Russell and Orchard Sts., W. Somerville.

Medical School.

SAMUEL HOLMES DURGIN, M.D., *Lecturer on Hygiene*, 579 Tremont St., Boston.

CHARLES FOLLEN FOLSOM, A.M., M.D., *Lecturer on Mental Diseases*, 15 Marlborough St., Boston.

HENRY PARKER QUINCY, A.M., M.D., *Instructor in Histology*, Dedham.

GEORGE BRUNE SHATTUCK, A.M., M.D., *Instructor in Clinical Medicine*, 24 Marlborough St., Boston.

JAMES JACKSON PUTNAM, A.B., M.D., *Instructor in Diseases of the Nervous System*, 106 Marlborough St., Boston.

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THOMAS MORGAN ROTCH, A.B., M.D., *Instructor in Diseases of Children*, 197 Commonwealth Ave., Boston.

GEORGE MINOT GARLAND, A.B., M.D., *Instructor in Clinical Medicine*, 227 Newbury St., Boston.

JOSEPH WEATHERHEAD WARREN, A.B., M.D., *Instructor in Physiology*, 119 Boylston St., Boston.

WILLIAM WHITWORTH GANNETT, A.B., M.D., *Instructor in Pathology*, 110 Boylston St., Boston.

CHARLES MONTRAVILLE GREEN, A.B., M.D., *Instructor in Obstetrics*, 78 Marlborough St., Boston.

CHARLES HARRINGTON, A.B., M.D., *Instructor in Hygiene, and Assistant in Chemistry*, 399 Boylston St., Boston.

CLINICAL INSTRUCTORS.

THEODORE WILLIS FISHER, M.D., *in Mental Diseases*, Lunatic Hospital, So. Boston.

JOHN HOMANS, A.B., M.D., *in the Diagnosis and Treatment of Ovarian Tumors*, 161 Beacon St., Boston.

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FRANCIS BOOTT GREENOUGH, A.M., M.D., *in Syphilis*, 10 Charles St., Boston.
OLIVER FAIRFIELD WADSWORTH, A.M., M.D., *in Ophthalmoscopy*, 139 Boylston St., Boston.
CLARENCE JOHN BLAKE, M.D., *in Otology*, 226 Marlborough St., Boston.
JOHN ORNE GREEN, A.M., M.D., *in Otology*, 15 Mt. Vernon St., Boston.
ABNER POST, A.B., M.D., *in Syphilis*, 581 Tremont St., Boston.
ELBRIDGE GERRY CUTLER, A.B., M.D., *in Auscultation*, 275 Clarendon St., Boston.
ARTHUR TRACY CABOT, A.M., M.D., *in Genito-urinary Surgery*, 3 Marlborough St., Boston.
WILLIAM WHITWORTH GANNETT, A.B., M.D., *in Auscultation*, 110 Boylston St., Boston.
GEORGE LINCOLN WALTON, A.B., M.D., *in Diseases of the Nervous System*, 6 Beacon St., Boston.

Dental School.

HORATIO COOK MERIAM, D.M.D., *Instructor in Operative Dentistry*, Salem.
ALLSTON GRAY BOUVÉ, D.M.D., *Instructor in Operative Dentistry*, 12 West St., Boston.
GEORGE HOWARD MONKS, A.B., M.D., *Instructor in Surgical Pathology*, 143 Boylston St., Boston.
DANIEL FRANK WHITTEN, D.M.D., *Instructor in Operative Dentistry*, 394 W. Broadway, So. Boston.
JERE EDMUND STANTON, M.D., D.M.D., *Instructor in Oral Pathology and Anatomy*, 132 Boylston St., Boston.
WILLIAM PARKER COOKE, D.M.D., *Instructor in Operative Dentistry*, 100 Boylston St., Boston.
EDWARD EARL HOPKINS, D.M.D., *Instructor in Operative Dentistry*, 85 Newbury St., Boston.

Bussey Institution.

BENJAMIN MARSTON WATSON, A.B., *Instructor in Horticulture*, Jamaica Plain.
NATHANIEL THAYER KIDDER, B.A.S., *Instructor in Botany*, Milton.
KENELM WINSLOW, B.A.S., M.D.V., *Instructor in Zoölogy*, 4 Perkins St., Jamaica Plain.

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Amory, Copley,	*Boston*,	Little's Block 28.
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Bailey, James Alderson, Jr.	*Arlington*,	S. 31.
Bailey, Thomas Jennings,	*Clarkville, Tenn.*	Felton Building 34.
Balch, Franklin Greene,	*Jamaica Plain*,	M. 22.
Baldwin, Charles Handy,	*Cincinnati, O.*	T. 25.
Bancroft, Wilder Dwight,	*Milton*,	T. 14.
Barnes, William, Jr.	*Albany, N. Y.*	Hilton Block 32.
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Bartlett, Nathaniel Edward,	*Wakefield*,	M. 21.
Beals, William, Jr.	*Boston*,	H'y 23.
Bennett, Joseph Irving,	*Brighton*,	D. 19.
Billier, William Bayard de,	*Yonkers, N. Y.*	Beck Building 47.
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Bôcher, Maxime,	*Cambridge*,	12 Holyoke Pl.
Bohlen, Charles,	*Philadelphia, Pa.*	Beck Building 42.
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Brock, George Atwood,	*Brighton*,	D. 19.
Browne, Causten, Jr.	*Boston*,	W. 13.
Browne, Thomas Quincy, Jr.	*Boston*,	G. 9.
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Burdett, Cyril Herbert,	*Wakefield*,	T. 22.
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Chittenden, Richard Percy, A.B. (*Univ. State of N. Y.*) 1887,	*Brooklyn, N. Y.*	17 Lowell St.
Choate, Charles Francis, Jr.	*Southborough,*	20 Holyoke St.
Churchill, Asaph,	*Dorchester,*	W. 10.
Clark, Charles Worcester,	*West Roxbury,*	C. 12.
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Cogswell, George Proctor,	*Cambridge,*	H'ke 37.
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Friend, Charles,	*Milwaukee, Wis.*	W. 29.
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Furness, William Henry, 3d,	*Philadelphia, Pa.*	M. 48.
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Gale, William Wakefield,	*Exeter, N. H.*	M. 11.
Gallivan, James Ambrose,	*So. Boston,*	37 Bolton St.,
Gallivan, William Joseph,	*So. Boston,*	So. Boston.
Garrison, Lloyd McKim,	*Orange, N. J.*	H'ke 23.
Gasquet, Marshall John, A.B. (*Spring Hill Coll.*) 1886,	*New Orleans, La.*	404 Harvard St.
Gay, Arthur Park,	*Boston,*	M. 30.
Gersdorff, George Bruno de,	*Cambridge,*	1 Garden St.
Gibson, Howard Beers,	*Washington, Conn.*	D. 24.
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Gitterman, John Milton,	*New York, N. Y.*	W. 29.
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Goodhue, Samuel Amory,	*Salem,*	H'ke 46.
Gooding, Josiah Ferdinand,	*Brookline,*	H'y 2.
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Hall, George Gilman,	*Chelsea,*	T. 49.
Hall, Samuel Stickney,	*Washington, D. C.*	H. 5.
Hallowell, James Mott,	*West Medford,*	T. 5.
Hammerslough, Cosmond Rose,	*New York, N. Y.*	W. 4.
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Harlow, James Francis,	*Quincy Point,*	T. 58.
Harriman, Edward Avery,	*Framingham,*	D. 22.
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Holden, Albert Fairchild,	*Cleveland, O.*	W. 1.
Holder, Daniel Curtis, Jr.	*Boston,*	H'y 8.
Holder, Oscar Howe,	*Boston,*	H'y 8.
Holland, Robert Afton, Jr., A.B. (*Tulane Univ.*) 1886,	*St. Louis, Mo.*	Lawrence Hall 17.

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Hosmer, Edward Sturges, A.M. (*Columbian Univ.*) 1885,	*Deer Park, Md.*	M. 33.
Howard, Arthur Lincoln,	*Cambridge,*	826 Main St.
Jackson, Arthur Cornelius,	*Utica, N. Y.*	G. 36. [Roxbury.
Job, Herbert Keightley,	*Roxbury,*	1631 Tremont St.
Johnson, Arthur Treadway,	*Littleton,*	H. 1.
Kahnweiler, Charles Francis,	*New York, N. Y.*	T. 21.
Kalopothakés, Francis Demetrius,	*Athens, Greece,*	S. 18.
Keasbey, Lindley Miller,	*Newark, N. J.*	H'ke 26.
Kelley, Michael Edward,	*Cambridge,*	21 Tremont St.
Kellogg, Ralph Averill,	*Plattsburgh, N. Y.*	H'ke 1.
Kennard, Frederic Hedge,	*Brookline,*	Manter Block 4.
Kidder, Edward Hamilton,	*Lincoln,*	C. 57.
Kimball, Willard Robert,	*Chicago, Ill.*	717 Cambridge St.
Knowles, Francis Wallace,	*Newark, N. J.*	410 Harvard St.
Latham, Charles Sterrett,	*Stockbridge.*	
Lawton, Perry,	*Quincy,*	H. 25.
Leahy, William Augustine,	*So. Boston,*	S. 23.
Leighton, George Bridge,	*St. Louis, Mo.*	W. 9.
Leland, Robert Hamilton,	*Sherborn,*	S. 9.
Lent, George Heydenfeldt,	*New York, N. Y.*	H'ke 19.
Le Roy, Robert Coleman,	*New York, N. Y.*	Beck Building 31.
Livingood, Charles Jacob,	*Reading, Pa.*	T. 60.
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Lund, Fred Bates,	*Concord, N. H.*	Wadsw'th House 14.
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McCammon, John White, A.B. (*Ohio Wesleyan Univ.*) 1885,	*Hopewell, O.*	9 Story St.
McCleary, Samuel Foster, Jr.	*Brookline,*	H'ke 16.
Mahany, Rowland Blennerhassett,	*Buffalo, N. Y.*	46 Mt. Auburn St.
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Marsh, George Edward, Jr.	*Cambridge,*	362 Harvard St.
Mason, Edward Campbell,	*Arlington,*	S. 31.
Mason, Henry Lowell,	*Boston,*	H'ke 4.
Mead, George Herbert, A.B. (*Oberlin Coll.*) 1883,	*Cambridge,*	11 Sumner St.
Means, Frederick Howard,	*Dorchester,*	26 Holyoke St.
Merrill, William Stetson,	*Newtonville,*	C. 10.
Meserve, Harry Fessenden,	*Colorado Spr., Col.*	Shepherd Block 11.

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Miner, Sidney Roby,	*Wilkes Barre, Pa.*	T. 9.
Mitchell, William,	*Kendallville, Ind.*	Read's Block 2.
Musaus, Charles De Verd,	*Portland, Me.*	S. 4.
Nelson, William,	*Nashville, Tenn.*	379 Harvard St.
Norton, Rupert,	*Cambridge,*	Kirkland St.
Norton, William Kimball,	*Boston,*	90 Chambers St., [Boston.
O'Callaghan, Peter Joseph,	*New York, N. Y.*	C 44.
Oppenheim, Nathan,	*Albany, N. Y.*	T. 1.
Overton, Robert Lee,	*Nashville, Tenn.*	W. 6.
Page, Herman,	*Boston,*	H'ke 12.
Paine, Robert Treat, Jr.	*Waltham,*	H'ke 32.
Palmer, Bradley Webster,	*Wilkes Barre, Pa.*	W. 52.
Paul, Heywood Mason,	*Philadelphia, Pa.*	W. 5.
Payson, Francis Lithgow,	*Cortez viâ Dolores, Col.*	
Peale, Frank Dixon,	*Lock Haven, Pa.*	T. 25.
Pease, Edward Allen,	*Boston,*	W. 2.
Pennypacker, Henry,	*W. Chester, Pa.*	134 Mt. Auburn St.
Pierce, Valentine Mott,	*Buffalo, N. Y.*	W. 2.
Platt, Edmund,	*Poughkeepsie, N. Y.*	H. 12.
Plummer, Frederic,	*Auburndale,*	G. 27.
Plummer, Henry Merrihew,	*New Bedford,*	896 Main St.
Pope, Henry Temple,	*Dorchester,*	H'ke 16.
Porter, Charles Allen,	*Boston,*	Little's Block 2.
Pratt, Edward Bigley,	*Hingham Centre,*	H. 11.
Pulsford, Henry Allston,	*S. Orange, N. J.*	T. 21.
Pulsifer, George Royal,	*Auburndale,*	H'y 1.
Rand, William Henry, Jr.	*Chicago, Ill.*	Manter Block 2.
Rantoul, Albert Wood,	*Beverly,*	H'y 22.
Reynolds, John Earle,	*Meadville, Pa.*	Manter Block 2.
Richards, George Joseph,	*Weymouth,*	T. 50.
Robinson, James Henry,	*Springfield, O.*	710 Cambridge St.
Rogers, Charles Butler,	*Utica, N. Y.*	Hilton Block 16.
Rolfe, Charles Joseph,	*Cambridge,*	W. 31.
Ropes, William,	*Brooklyn, N. Y.*	Hilton Block 34.
Sampson, Henry Warren,	*New York, N. Y.*	Little's Block 22.
Sanford, Henry Shelton, Jr.	*Sanford, Fla.*	Beck Building 31.
Saunderson, Charles Brooks,	*Lynn,*	T. 38.
Savary, Edward Hosmer,	*Boston,*	G. 7.
Saxe, James Alfred, A.B. (*Wesleyan Univ.*) 1885,	*Troy, N. Y.*	20 Prescott St.
Saxe, John Walter, A.B. (*Wesleyan Univ.*) 1885,	*Boston,*	20 Prescott St.

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Schermerhorn, Bernard Turner,	*Dedham*,	W. 13.
Seelye, Thomas Taylor,	*Cleveland, O.*	5 Linden St.
Seip, John Merwine,	*Reading, Pa.*	S. 13.
Sempers, Charles Tildon,	*Cambridge*,	46 Mt. Auburn St.
Shahan, Jeremiah M, A.B. (*Wesleyan Univ.*) 1886,	*Hazardville, Conn.*	23 Irving St.
Shepard, Herman Thyng,	*W. Epping, N. H.*	138 Mt. Auburn St.
Shepard, Thomas Osborne,	*Salem*,	Manter Block 3.
Shoninger, Ferdinand,	*Boston*,	215 W. Newton St., [Boston.
Simpkins, Allan Thacher, PH.B. (*Wesleyan Univ.*) 1887,	*St. Louis, Mo.*,	W. 17.
Smith, Chauncey, Jr.	*Cambridge*,	T. 53.
Smith, Dan Louis,	*Beachmont*,	H. 18.
Spalding, Edwin William,	*Washington, D. C.*	C. 68.
Spaulding, William Stuart,	*Boston*,	Beck Building 41.
Stetson, Frederick Dudley,	*New Bedford*,	H'y 15.
Stowell, Edmund Channing,	*Roxbury*,	T. 14.
Sullivan, Lynde,	*Malden*,	Little's Block 23.
Swain, Harold,	*Indianapolis, Ind.*	G. 49.
Swarts, Solomon Louis,	*Cincinnati, O.*	W. 12.
Taylor, Edward Wyllys,	*Montclair, N. J.*	G. 16.
Thayer, Ezra Ripley,	*Cambridge*,	G. 51.
Thayer, Lucian Skinner,	*Boston*,	S. 28.
Thompson, William Goodrich,	*Cambridge*,	62 Buckingham St.
Towle, Harvey Parker,	*Somerville*,	H. 31.
Trull, Edward Warren,	*Tewksbury*,	H'y 2.
Ullrich, George Edward Walter,	*Chicago, Ill.*	H'y 15.
Van Deman, Ralph Henry,	*Delaware, O.*	366 Harvard St.
Walden, John William Henry,	*Cambridge*,	13 Mt. Auburn St.
Whipple, Farrington Hasham,	*Portland, Me.*	S. 5.
Willett, Walter Marinus,	*San Francisco, Cal.*	T. 6.
Williams, Frank Backus,	*Daniels'nville, Conn.*	H'ke 12.
Williams, Frank Beverly,	*Cleveland, O.*	H. 32.
Winslow, Nathan Howard,	*Buffalo, N. Y.*	77 Mt. Auburn St.
Wood, John Walter, Jr.	*So. Orange, N. J.*	Hilton Block 27.
Woodman, Francis Call,	*Jamaica Plain*,	H'ke 21.
Woodworth, William McMichael,	*San Francisco, Cal.*	149 Brattle St.
Workum, Julius Freiberg,	*Cincinnati, O.*	W. 12.

Junior Class.

Albee, Sumner Rankin,	*Cambridgeport*,	30 Essex St.
Allison, Burt McVay,	*Wichita, Kan.*	366 Harvard St.

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Anderson, Oscar Million,	*Neligh, Neb.*	M. 25.
Ayer, Charles Carlton,	*Boston,*	T. 49.
Bailey, Henry Lewis,	*Cambridge,*	5 Elmer St.
Balch, John,	*Jamaica Plain,*	M. 22.
Baldwin, Robert Stanton,	*Worcester,*	20 Prescott St.
Barret, Alex Galt,	*Louisville, Ky.*	M. 8.
Bartholow, Paul,	*Philadelphia, Pa.*	736 Cambridge St.
Batchelder, Charles Clarence,	*Boston,*	H'y 21.
Bates, Edward Craig,	*Westborough,*	Felton Building 15.
Beale, Seth,	*E. Boston,*	C. 2.
Bent, Arthur Cleveland,	*Taunton,*	12 Oxford St.
Bent, Frederick Hendee,	*Taunton,*	12 Oxford St.
Bentley, William Burdelle,	*Maple Valley, N. Y.*	D. 1.
Bigelow, William Reed,	*Natick,*	H. 26.
Bingham, Isaac Edward,	*Poughkeepsie, N. Y.*	H. 11.
Black, George Henry,	*Washington, Conn.*	M. 26.
Boas, Melvin Edward,	*New York, N. Y.*	T. 47.
Bosworth, Fred Cyrus,	*Cleveland, O.*	Felton Building 10.
Brainard, Clinton Tyler,	*Kearney, Neb.*	44 Mt. Auburn St.
Brewer, Graham Hunting,	*So. Orange, N. J.*	H'ke 23.
Brooks, Frederic Manning,	*Boston,*	H. 26.
Bullard, Gardner Cutting,	*Cambridge,*	757 Main St.
Bunker, Clarence Alfred,	*Roxbury,*	C. 21.
Burbank, John Cabel Breckinridge,	*Henderson, Ky.*	18 Appian Way.
Burdett, William Freeman,	*Marlborough,*	T. 67.
Burr, Allston,	*Newton,*	M. 42.
Burrows, George Thompson,	*Madison, Wis.*	16 Holyoke St.
Bush, Robert Wilder,	*West Newton,*	M. 42.
Butters, George Pierce,	*Boston,*	M. 1.
Butters, William Henry,	*Boston,*	M. 1.
Cabot, Richard Clarke,	*Brookline,*	G. 10.
Caner, Harrison Koons,	*Philadelphia, Pa.*	G. 44.
Chard, Thomas Chester,	*Buffalo, N. Y.*	11 Appian Way.
Chase, George Davis,	*No. Dighton,*	4 Divinity Ave.
Clark, Daniel Harry,	*St. Louis, Mo.*	M. 49.
Clark, Walter Daniel,	*New York, N. Y.*	W. 42.
Codman, Philip,	*Brookline,*	Manter Block 5.
Cogswell, Charles Frederick,	*Charlestown,*	G. 21.
Copeland, Charles,	*Dedham,*	9 Plympton St.
Crocker, Joseph Ballard,	*Boston,*	9 Bow St.
Crowl, Harry Bert,	*Cleveland, O.*	Felton Building 10.
Curran, Richard Langford,	*Utica, N. Y.*	G. 1.
Curry, Charles Emerson,	*Brookline,*	H'ke 42.

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Darling, Herbert Henry,	*Troy, N. Y.*	M. 14.
Davenport, Charles Benedict,	*Brooklyn, N. Y.*	8 Appian Way.
Davies, Luther,	*Columbus, Wis.*	T. 62.
Davis, John Tilden, Jr.	*St. Louis, Mo.*	M. 49.
Deblois, George Lewis, Jr.	*Boston,*	M. 20.
Dexter, Philip,	*Boston,*	404 Harvard St.
Dodge, Robert Elkin Neil,	*Longwood,*	T. 61.
Downer, Charles,	*Boston,*	W. 21.
Dunham, Stillman Roberts,	*Malden,*	G. 21.
Dunlap, Charles Bates,	*Indian Creek, W. Va.*	19 Church St.
Durfee, Randall Nelson,	*Fall River,*	W. 34.
Dustan, Earnest Webster,	*Boston,*	379 Harvard St.
Eames, Frank Henry,	*Wilmington,*	W. 51.
Eaton, Francis Goodrich,	*St. Louis, Mo.*	W. 17.
Ellis, William Struthers,	*Bryn Mawr, Pa.*	37 Brattle St.
Endicott, John,	*Beverly,*	M. 3.
Fales, Frank Lewis,	*Milford,*	H. 2.
Faxon, Frederick Winthrop,	*Roxbury,*	12 Remington St.
Federhen, Herbert Melancthon, Jr.	*Quincy Point,*	T. 38.
Flint, Grover,	*New York, N. Y.*	W. 19.
Frank, Leo Edwin,	*New York, N. Y.*	H'ke 5.
Gerstle, Marcus,	*San Francisco, Cal.*	H'ke 5.
Giese, William Frederick,	*Cambridge,*	419 Broadway.
Gleason, Sidney,	*West Medford,*	M. 57.
Goebel, Gustavus Adolphus,	*Chicago, Ill.*	S. 13.
Goodale, Joseph Lincoln,	*Cambridge,*	8 Craigie St.
Gray, Gerald Hull,	*Scarborough, N. Y.*	20 Holyoke St.
Green, Frederick,	*Cambridge,*	M. 29.
Green, Walter Cox,	*Gloucester,*	D. 34.
Greene, Carleton,	*New York, N. Y.*	G. 34.
Grew, Edward Wigglesworth,	*Boston,*	H'y 21.
Griffing, Edward Stetson,	*Lexington,*	S. 11.
Griswold, Leon Stacy,	*Dorchester,*	14 Oxford St.
Gunther, Bernard Gottlieb,	*New York, N. Y.*	Felton Building 35.
Gunther, Elsner Christian,	*New York, N. Y.*	Felton Building 35.
Hall, James Winslow,	*Port Blakeley, W. T.*	Felton Building 18.
Hall, Prescott Farnsworth,	*Brookline,*	16 Winthrop St.
Harding, Victor Matthews,	*Chicago, Ill.*	H'y 4.
Harvey, Gilman Sargent,	*Gloucester,*	T. 3.
Harwood, Charles Hamant,	*Boston,*	M. 32.
Haynes, Fred Emory,	*Marlborough,*	T. 28.
Hebard, Alfred Partridge,	*St. Louis, Mo.*	W. 16.
Henshaw, Arthur,	*Cincinnati, O.*	G. 8.

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Herman, Henry Newell,	*Roxbury*,	5 DeWolf St.
Hight, Clarence Albert,	*Portland, Me.*	S. 1.
Hildreth, Samuel Dawley,	*Gloucester*,	T. 3.
Hobart, Edward,	*E. Bridgewater*,	18 Appian Way.
Hodges, Almon Danforth,	*Roxbury*,	M. 24.
Holliday, Guy Harold,	*Roxbury*	C. 21.
Hooper, Louis Leverett,	*Washington, D. C.*	H'ke 45.
Howe, Gurdon Saltonstall,	*Haverhill*,	H'y 19.
Hull, Morton Denison,	*Chicago, Ill.*	Felton Building 24.
Hunneman, Carleton,	*Roxbury*,	T. 15.
Hunter, George Leland,	*Caryville*,	G. 38. [ville.
Huntress, Franklin Elias,	*Somerville*,	318 Elm St., Somer-
Hutchinson, Walter Perkins,	*Somerville*,	25 Brook St., Somer-
Jacobs, Frederick Boyden,	*West Scituate*,	H'ke 28. [ville.
Jellinek, Edward Lincoln,	*Buffalo, N. Y.*	M. 55.
Jennings, Walter Louis,	*Cambridgeport*,	17 Maple Ave.
Jewell, Edward Christian,	*Cambridgeport*,	5 Inman St.
Johnson, Herbert Parlin,	*Everett*,	Everett.
Joline, Olin Coit,	*Tottenville, N. Y.*	C. 35.
Kelham, Frederick Keffer,	*Manchester*,	G. 37.
Kellogg, Henry Theodore,	*Plattsburgh, N. Y.*	H'ke 1.
Keyes, George Thomas,	*Boston*,	H'y 18.
Kimball, Moses Day,	*Boston*,	Read's Block 10
King, James Gore,	*New York, N. Y.*	T. 13.
Kirby, Edward Napoleon,	*Cambridge*,	71 Sacramento St.
Lane, Frank Edwin,	*Arlington*,	G. 31.
Lathrop, Henry Burrowes,	*Oakland, Cal.*	46 North Ave.
Leavitt, Robert Greenleaf,	*Cambridge*,	780 Main St.
Lee, George Winthrop,	*Roxbury*,	T 61.
Lefavour, William Asa,	*Beverly*,	5 Felton St.
Lord, Frederic Breed,	*Sacramento, Cal.*	S. 19.
Lydig, Philip Mesier,	*Orange, N. J.*	Beck Building 43.
MacKay, Walter Wise,	*Englewood, N. J.*	Read's Block 10.
McPherson, George Sturtevant,	*E. Boston*,	T. 55.
Magee, Walter Warren,	*Groveland, N. Y.*	Felton Building 24.
Mandell, George Snell,	*Boston*,	W. 18.
Manley, Samuel Cony,	*Augusta, Me.*	Hilton Block 18.
Marble, Milton Mozart,	*Marshall, Mich.*	13 Mt. Auburn St.
Marquand, Philip,	*Newburyport*,	13 Bow St.
Marsh, Walter Randall,	*Cambridge*,	362 Harvard St.
Marvin, James Meehan,	*Saratoga Spr., N. Y.*	Hilton Block 26.
Maynadier, Gustavus Howard,	*Cambridge*,	9 Plympton St.
Merrill, John Douglas,	*Lawrence*,	T. 48.

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Merrill, Joseph Warren, Jr.	*Cambridge*,	G. 41.
Mitchell, Julian, Jr.	*Charleston, S. C.*	T. 68.
Monro, William Loftus,	*Pittsburgh, Pa.*	H'y 16.
Moore, Clifford Herschel,	*Cambridge*,	S. 10.
Morgan, John Pierpont, Jr.	*New York, N. Y.*	Beck Building 6.
Naumburg, Walter,	*New York, N. Y.*	M. 10.
Newell, James Montgomery,	*Roxbury*,	T. 15.
Nickerson, Joseph,	*Cambridge*,	10 Mason St.
Niedermann, Albert August William,	*Milwaukee, Wis.*	D. 2.
Nields, John Percy,	*Wilmington, Del.*	D. 30.
Norman, George H, Jr.	*Boston*,	Beck Building 37.
Packard, Henry Winsor,	*Salem*,	Felton Building 16.
Painter, George Blair,	*Pittsburgh, Pa.*	Beck Building 34.
Parker, Franklin Eddy,	*Brookline*,	W. 21.
Partridge, Lasell Ellison,	*Orland, Me.*	S. 24.
Paul, Wesley,	*East Saugus*,	East Saugus.
Pear, William Hesseltine,	*Cambridge*,	20 Trowbridge St.
Perry, Gardner,	*Boston*,	25 Holyoke St.
Phelps, John Samuel,	*Lynn*,	16 Oxford St.
Pillsbury, William Forrest,	*Springfield, Ill*	H. 19.
Potter, Alfred Claghorn,	*New Bedford*,	T. 45.
Prescott, Oliver, Jr.	*New Bedford*,	Little's Block 17.
Prindle, James Dwight, Jr.	*Somerville*,	H'y 13.
Proctor, James Howe,	*Boston*,	Little's Block 18.
Rantoul, William Gibbons,	*Salem*,	H'ke 44.
Raymond, Frederick Olin, Jr.	*Haverhill*,	T. 48.
Reisner, George Andrew,	*Indianapolis, Ind.*	C. 37.
Reynolds, Philip Murray,	*Boston*,	Shepherd Block 9.
Richards, William Francis,	*Newport, N. H.*	T. 39.
Richardson, Mark Wyman,	*Brooklyn, N. Y.*	H'ke 13.
Ropes, James Hardy,	*Andover*,	T. 39.
Ruland, Irving Augustus,	*Brooklyn, N. Y.*	H. 8.
Russell, Herbert Leslie,	*Norway, Me.*	C. 42.
Salisbury, William Randall,	*New York, N. Y.*	H. 17.
Saunders, Ambrose Courtis,	*E. Cambridge*,	169 Cambridge St.
Saville, Caleb Mills,	*Medford*,	Felton Building 3.
Sears, Herbert Mason,	*Boston*,	Beck Building 32.
Sears, Philip Shelton,	*Boston*,	Beck Building 32.
Sedgwick, John Hunter,	*New York, N. Y.*	W. 23.
Shattuck, George Hodges,	*Winchester*,	Hilton Block 37.
Sheldon, Frank Pacheco,	*San Francisco, Cal.*	M. 56.
Shoemaker, Elmer Ellsworth,	*Dalton, Pa.*	C. 37.

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Slattery, Charles Henry,	*South Boston*,	H. 4.
Smith, James Manning,	*Salem*,	Hilton Block 29.
Smith, John Rounds,	*Salem*,	H. 24.
Stevens, Hermon Weed,	*Dover, N. H.*	S. 6.
Stone, James Savage,	*Newton*,	W. 27.
Stone, Wilbur Fiske,	*Denver, Col.*	
Storrow, Edward Cabot,	*Brookline*,	Little's Block 8.
Strong, Henry Percy,	*Washington, D.C.*	746 Cambridge St.
Surbridge, Randolph Cassius,	*Denver, Col.*	H'ke 45.
Tailer, Thomas Suffern,	*New York, N. Y.*	Hilton Block 40.
Taylor, Harry Burlingame,	*Lowell*,	T. 24.
Taylor, Martin Allison,	*Haverhill*,	H'y 19.
Thayer, Charles Martin,	*Worcester*,	20 Prescott St.
Thayer, Frank Wallace,	*Lowell*,	C. 31.
Thayer, William Holbrook,	*Boston*,	410 Harvard St.
Townsend, Robert Elmer,	*Boston*,	Shepherd Block 6.
Trafford, Perry Davis,	*Fall River*,	M. 5.
Trail, Arthur,	*Frederick, Md.*	W. 45.
Turnure, Redfield,	*New York, N. Y.*	Beck Building 2.
Vorse, Albert White,	*Wellesley Hills*,	T. 45.
Wait, Clarence Allen,	*Decatur, Ill.*	13 Kirkland Pl.
Ward, Robert DeCourcy,	*Boston*,	Hilton Block 38.
Wardman, Ervin,	*San Francisco, Cal.*	M. 56.
Wardner, Henry Steele,	*Springfield*,	W. 10.
Warren, Charles,	*Dedham*,	G. 11.
Warren, Edward Ross,	*Brookline*,	W. 48.
Warren, William Homer,	*Cambridge*,	84½ Shepard St.
Waterman, George Waldo,	*Andover*,	D. 23.
Weaver, Benjamin,	*Newport, R. I.*	Hilton Block 24.
Weld, Bernard Coffin,	*Jamaica Plain*,	Little's Block 17.
Wengren, Elmer Lindberg,	*Portland, Me.*	M. 27.
Wetmore, Charles Delevan,	*Jamestown, N. Y.*	Manter Block 1.
White, Henry Russell,	*Arlington Heights*,	C. 16.
Whitney, James Edward, Jr.	*Newburyport*,	H'y 12.
Whitridge, Morris,	*Baltimore, Md.*	H'y 7.
Wilder, Raymond Sargent,	*No. Cambridge*,	13 Lancaster St.
Wilson, John Mills,	*Roxbury*,	1092 Tremont St., [Roxbury.
Winkler, Max,	*Cincinnati, O.*	H. 16.
Woodbury, Thornton,	*New York, N. Y.*	9 Linden St.
Wright, George Elliot,	*Townsend*,	15 Sumner St.
Zinkeisen, Frank Edward,	*Milwaukee, Wis.*	13 Bow St.

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Sophomore Class.

Abbot, Philip Stanley,	*Milwaukee, Wis.*	S. 26.
Adler, Isaac Levi,	*Rochester, N. Y.*	16 Mellen St.
Akin, Thomas Russell,	*St. Louis, Mo.*	404 Harvard St.
Aldrich, Harry Macfarland,	*Marlborough,*	T. 67.
Andrews, Frank William, Jr.	*Boston,*	Little's Block 13.
Arms, Richard Herbert,	*Decrfield,*	2 Holmes Pl.
Bacon, Francis Warren,	*Bedford,*	M. 23.
Balch, Thomas Willing,	*Philadelphia, Pa.*	729 Cambridge St.
Baldwin, Arthur Colton,	*Somerville,*	H. 30.
Barnes, Charles Benjamin, Jr.	*Boston,*	Little's Block 9.
Barney, George Lawrence,	*Chicago, Ill.*	W. 22.
Barr, James Cummings,	*Boston,*	Little's Block 10.
Barrell, Walter Lewis,	*W. Bridgewater,*	712 Cambridge St.
Bates, Herbert,	*Cambridge,*	30 Shepard St.
Bates, William Nickerson,	*Cambridge,*	56 Dana St.
Bayer, Edwin Max,	*New York, N. Y.*	739 Cambridge St.
Bean, Charles Lathrop,	*Jacksonville, Fla.*	H. 27.
Beecher, Theodore Smith,	*Buffalo, N. Y.*	Read's Block 2.
Bigelow, Ernest Abraham,	*Cambridge,*	T. 46.
Black, Morris Alfred,	*Cleveland, O.*	T. 4.
Blagden, George, Jr.	*New York, N. Y.*	Little's Block 12.
Blaney, Charles Préaut,	*Cambridge,*	12 Remington St.
Blum, Max,	*Vacaville, Cal.*	G. 52.
Blunt, John Samuel,	*Milford,*	T. 28.
Bolton, Charles Knowles,	*Cleveland, O.*	378 Harvard St.
Boynton, John Henry,	*Woodstock, Vt.*	C. 66.
Brandenstein, Henry Ulysses,	*San Francisco, Cal.*	24 Arrow St.
Brewster, Edwin Tenney,	*Lawrence,*	G. 15.
Brewster, George Washington Wales,	*Roxbury,*	M. 24.
Brown Frederick Melvin,	*Brooklyn, N. Y.*	M. 35.
Brown, Harry Fletcher,	*Natick,*	S. 12.
Brown, Philip King,	*San Francisco, Cal.*	G. 48.
Brown, Reynolds Driver,	*Germantown, Pa.*	M. 35.
Burnham, Addison Center,	*Cambridgeport,*	68 Inman St.
Burr, Charles Wolcott,	*Auburndale,*	M. 39.
Burrage, Edgar,	*Boston,*	M. 37.
Burton, Harry Edwin,	*Cambridge,*	373 Harvard St.
Butterworth, James Francis,	*Cambridge,*	25 William St.
Buttimer, Thomas Henry,	*Hingham,*	S. 22.
Cabot, Frederick Pickering,	*Brookline,*	G. 32.

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Calkins, Leighton,	*Newton*,	C. 4.
Calkins, Raymond,	*Newton*,	C. 4.
Carter, Benjamin Edward, Jr.	*Warren, Conn.*	D. 33.
Cary, Robert John,	*Milwaukee, Wis.*	W. 20.
Chamberlin, Leigh Wentworth,	*Portland, Me.*	T. 12.
Cheney, Benjamin Peirce, Jr.	*Wellesley*,	Shepherd Block 3.
Cheney, Paul Howard,	*So. Manchester, Conn.*	M. 15.
Clifford, Nathan,	*Portland, Me.*	Little's Block 11.
Coatsworth, Reuben Hèber,	*Buffalo, N. Y.*	C. 59.
Cobb, Farrar Crane,	*Dorchester*,	H'ke 47.
Codman, John Sturgis,	*Cotuit*,	52 Brattle St.
Conger, Kenyon Bronson,	*Akron, O.*	62 Brattle St.
Cook, Isaac, Jr.	*St. Louis, Mo.*	7 Ware St.
Coombs, Jerome Wahlrath,	*Brooklyn, N. Y.*	H'ke 48.
Corning, Howard,	*Portland, Me.*	G. 20.
Cotton, Frederic Jay,	*Newport, R. I.*	T. 17.
Courtney, Joseph William,	*E. Cambridge*,	174 Cambridge St.
Crane, Walter Sanger,	*Brookline*,	T. 33.
Crawley, Josiah Thomas, Jr.	*Spartanburg, S. C.*	19 Winthrop St.
Crehore, Charles Lemuel,	*Boston*,	Beck Building 3.
Crocker, Robert Ives,	*New York, N. Y.*	9 Bow St.
Crowninshield, Bowdoin Bradlee,	*Boston*,	102 Mt. Auburn St.
Cummings, Elmer Lincoln,	*Warnerville*,	65 Mt. Auburn St.
Curtis, Francis Gardner,	*Boston*,	52 Brattle St.
Cutting, Frederic Page,	*San Francisco, Cal.*	Felton Building 26.
Dadmun, George Estabrook,	*Philadelphia, Pa.*	T. 52.
Darling, Eugene Abraham,	*Troy, N. Y.*	M. 14. [town.
Davenport, Charles Albert,	*Watertown*,	Grove St., Water-
De Long, Frank La Mont,	*Novato, Cal.*	W. 40.
Denison, John Porter,	*New Bedford*,	M. 50.
Dexter, Samuel,	*Chicago, Ill.*	9 Linden St.
Dexter, Samuel,	*Boston*,	48 Brattle St.
Dickerman, George Henry, Jr.	*Somerville*,	H. 30.
Dickson, Brenton Halliburton, Jr.	*Boston*,	Beck Building 26.
Dodge, Richard Elwood,	*Wenham*,	Felton Building 27.
Dow, Louis Henry,	*Cambridgeport*,	421 Green St.
Downs, William Charles,	*Greenland, N. H.*	S. 16.
Drew, Bertrand Lee,	*Cambridge*,	122 Oxford St.
Duffield, Henry Martyn, Jr.	*Detroit, Mich.*	W. 8.
Duncan, Frederick Smyth,	*Englewood, N. J.*	Felton Building 23.
Eaton, Charles Mayo,	*Needham*,	C. 7.
Eaton, William Colby,	*Portland, Me.*	M. 36.
Eckelman, Metius Marcellus,	*Elkhart, Ind.*	26 Mellen St.

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Eddy, Clinton Lucius,	*West Newton*,	H'ke 17.
Endicott, Robert Rantoul, Jr.	*Beverly*,	M. 3.
Fairbank, Kellogg,	*Chicago, Ill.*	13 Bow St.
Faulkner, Robert Eames,	*Keene, N. H.*	T. 27.
Fessenden, Russell Green,	*Boston*,	60 Mt. Auburn St.
Fisher, Benjamin,	*W. Dedham*,	C. 19.
Fiske, Winthrop Edwards,	*Lowell*,	C. 20.
Fogg, Horace Tower,	*So. Scituate*,	W. 22.
Foxcroft, Francis Augustus,	*Cambridge*,	Lawrence Hall 19.
Fullerton, Robert Morton,	*Waltham*,	Waltham.
Garrison, Philip McKim,	*Orange, N. J.*	739 Cambridge St.
Gay, Warren Fisher,	*Boston*,	Shepherd Block 3.
Gill, Martin Edward,	*Somerville*,	C. 47.
Glazier, Henry Simon,	*New York, N. Y.*	20 Prescott St.
Goddard, Walter Wesley,	*Westborough*,	T. 63.
Graham, John Dickson,	*E. Cambridge*,	57 Third St.
Greene, Arthur Lyman,	*Malden*,	W. 39.
Grover, Arthur Bradford,	*Indianapolis, Ind.*	M. 60.
Hand, Augustus Noble,	*Elizabethtown, N. Y.*	49 Oxford St.
Hapgood, Norman,	*Alton, Ill.*	H. 19.
Harrison, Richard Calhoun,	*San Francisco, Cal.*	M. 51. [town.
Hart, Francis Joseph,	*Charlestown*,	20 Mystic St., Charles-
Hartridge, Julian,	*Savannah, Ga.*	H'y 24.
Haskell, Harry Hill,	*Auburndale*,	M. 4.
Hathaway, Thomas Schuyler,	*New Bedford*,	Little's Block 20.
Hecht, Summit Louis,	*San Francisco, Cal.*	M. 31.
Herrick, Robert Welch,	*Cambridge*,	S. 1.
Hewes, Harry Fox,	*Cambridge*,	M. 29.
Hill, Myron Francis,	*Cambridge*,	366 Harvard St.
Hinckley, William Brewster,	*Hinsdale, Ill.*	866 Main St.
Hodgman, Arthur Winfred,	*Lowell*,	9 Story St.
Hoffmann, Ralph,	*Stockbridge*,	C. 64.
Holt, Dan Burton,	*Plainfield, Vt.*	C. 68.
Housman, Henry Somerindyke,	*Valatie, N. Y.*	W. 37.
Hubbard, Arthur Ashley,	*Montpelier, Vt.*	H. 15.
Hudson, Henry,	*Knoxville, Tenn.*	T. 20.
Hunnewell, Hollis Horatio, Jr.	*Wellesley*,	Beck Building 24.
Huntington, Lowell Fletcher,	*Cincinnati, O.*	Little's Block 21.
Irwin, Frank,	*Philadelphia, Pa.*	W. 39.
Jenks, Harrison Darling,	*Warsaw, N. Y.*	C. 7. [Boston.
Job, Robert,	*Boston*,	1631 Tremont St.,
Jones, Richard,	*Columbus, O.*	M. 17.
Jones, William Marks,	*Newton*,	Nonantum.

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Judson, Charles Francis,	*Philadelphia, Pa.*	W. 11.
Judson, Oliver Boyce,	*Philadelphia, Pa.*	W. 11.
Kelly, Edward Parker,	*Auburndale,*	C. 18.
Kielty, James Francis,	*Fitchburg,*	1½ Banks St.
Kinyon, Elmer L,	*Syracuse, N. Y.*	23 Irving St.
Knapp, Arnold Herman,	*New York, N. Y.*	G. 39.
Koshland, Abe,	*San Francisco, Cal.*	G. 52.
Kuhn, Robert,	*Cincinnati, O.*	G. 28.
Latta, William Jack,	*Boston,*	W. 43.
Lawrence, Samuel Came,	*Falmouth,*	22 Brookline St., Cambridgeport.
Learned, Henry Barrett,	*St. Louis, Mo.*	M. 46.
Leavitt, Edwin Bradford,	*Hingham,*	S. 22.
Lewis, Charles Allen,	*Indianapolis, Ind.*	G. 50.
Linn, Philip Billmeyer,	*Lewisburg, Pa.*	M. 17.
Littell, Philip,	*Brookline,*	T. 43.
Livingston, Cambridge,	*New York, N. Y.*	Hilton Block 28.
Lockwood, Hamilton De Forest,	*Groton,*	H'ke 49.
Lothrop, William Sturgis Hooper,	*Beverly Farms,*	52 Brattle St.
Lund, Joseph Wheelock,	*Concord, N. H.*	Wadsworth H. 14.
McCurdy, Samuel,	*Philadelphia, Pa.*	D. 25.
McKean, Frank Bowers,	*Nashua, N. H.*	C. 6.
McLeod, Sayre,	*Phelps, N. Y.*	M. 50.
Magoun, Walter Russell,	*West Medford,*	T. 64.
Mairs, George Hope,	*New York, N. Y.*	Hilton Block 1.
Malone, James Thomas,	*Fitchburg,*	M. 55.
Mather, Maurice Whittemore,	*Milford, N. H.*	H'ke 28.
Meeker, Henry Eugene,	*New York, N. Y.*	Hilton Block 31.
Mellen, James Lawrence,	*Lowell,*	C. 40.
Merrill, George Herbert,	*Cambridge,*	65 Dana St.
Merrill, Harry Rust,	*Haverhill,*	30 Holyoke St.
Miller, Charles Addison,	*Utica, N. Y.*	26 Holyoke St.
Montgomery, Richard Bullard,	*New Orleans, La.*	Felton Building 26.
Morgan, Clement Garnett,	*W. Washington, D. C.*	139 Columbia St.
Morgan, Francis Patterson,	*Washington, D. C.*	G. 33.
Morgan, Lewis Henry,	*Washington, D. C.*	Beck Building 22.
Morse, Almon Gardner,	*Boston,*	H'ke 14.
Morse, John Hamilton,	*Lawrence,*	S. 15.
Morton, Andrew Marcus,	*E. Boston,*	C. 38.
Myer, Walden,	*Washington, D. C.*	Hilton Block 35.
Myers, Frank Bigelow,	*Ishpeming, Mich.*	G. 42.
Norman, Guy,	*Boston,*	Beck Building 36.
Nutt, Charles,	*Natick,*	C. 3.

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Odell, William Rice,	*Chicago, Ill.*	Hilton Block 5.
Olmsted, Frank Lincoln,	*Saratoga Springs, N. Y.*	C. 35.
Page, Calvin Gates,	*Boston,*	9 Bow St.
Paine, Sumner,	*Boston,*	Shepherd Block 16.
Palmer, Wilson Newell,	*Cambridge,*	7 Cleveland St.
Parker, Henry Taylor,	*Boston,*	G. 14.
Parker, Philip Stanley,	*Longwood,*	28 Holyoke St.
Parker, Richard Fay,	*Boston,*	9 Bow St.
Payson, Gilbert Russell, Jr.	*Watertown,*	Beck Building 26.
Perry, Harry Tyler,	*Wilton, N. Y.*	H'ke 39. [Plain.
Pingree, Arthur Howe,	*Jamaica Plain,*	Revere Ste, Jamaica
Piper, Louis Allison,	*Keene, N. H.*	47 Trowbridge St.
Pond, Aylmer Draper,	*Roxbury,*	17 Dunster St.
Poor, Harris Osborne,	*Boston,*	M. 37.
Post, Waldron Kintzing,	*New York, N. Y.*	H'ke 34.
Pulsifer, Louis Warren,	*Auburndale,*	H'y 1.
Putnam, John Parkhurst,	*Worcester,*	362 Harvard St.
Rawson, Edward Stephen,	*Cincinnati, O.*	Read's Block 14.
Richmond, Stacy Courtis,	*New York, N. Y.*	60 Mt. Auburn St.
Roberts, Oliver Brewster,	*Salisbury Point,*	C. 60.
Robinson, Dwight Parker,	*Wareham,*	G. 25.
Rogers. Elliot Folger,	*Rockport,*	H'y 14.
Rollins, Abbott Henry,	*Cambridge,*	88 North Ave.
Rose, William Kent,	*Alex'dria Bay, N. Y.*	Felton Building 25.
Rourke, Joseph Edward,	*Dorchester,*	26 Holyoke St.
Royal, Harry Wasson,	*Ellsworth, Me.*	C. 23.
Rublee, George,	*Milwaukee, Wis.*	T. 36.
Runkle, Hugh Letson,	*Kenton, O.,*	366 Harvard St.
Sabine, Benjamin Dana,	*Brookline,*	Shepherd Block 2.
Sands, Benjamin Jerome,	*Port Chester, N. Y.*	M. 13.
Sanford, Samuel,	*Portsmouth, R. I.*	17 Dunster.
Sargent, Ara Nathaniel,	*Salem,*	H. 24.
Scott, James Brown,	*Philadelphia, Pa.*	29 Baldwin St.
Sears, Joseph Hamblin,	*Boston,*	T. 5.
Seeley, Edward Anson,	*Marcellus, N. Y.*	6 Story St.
Sheffield, Justus Pearl,	*New York, N. Y.*	M. 58.
Slocum, Thomas Williams,	*Jamaica Plain,*	Read's Block 8.
Sloss, Marcus Cauffman,	*San Francisco, Cal.*	M. 31.
Smith, Clifford Warren,	*Boston,*	Hilton Block 14.
Snow, Daniel Kimball,	*Boston,*	Little's Block 24.
Spencer, Charles Winthrop,	*No. Cambridge,*	19 Garfield St.
Stearns, William Bramhall,	*Brookline,*	T. 44.
Stebbins, Frank Stanley,	*Tunkhannock, Pa.*	C. 23.

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Stevens, George,	*Newport, R. I.*	H'y 6.
Strout, Henry Francis,	*Portland, Me.*	H'ke 11.
Sturgis, Edward,	*Manchester,*	M. 47.
Sturgis, Sullivan Warren,	*Manchester,*	M. 47.
Swasey, George Oscar,	*Beverly,*	W. 54.
Swinburne, Samuel Foster,	*Natick,*	C. 3.
Talbot, Thomas,	*No. Billerica,*	Hilton Block 21.
Taylor, Charles Henry, Jr.	*Boston,*	H'ke 14.
Taylor, Kenneth Matheson,	*Brookline,*	25 Holyoke St.
Thorndike, Harry Hill,	*Boston,*	Beck Building 25.
Thorndike, Sturgis Hooper,	*Cambridge,*	W. 3.
Tilton, Benjamin Trowbridge,	*Newport, R. I.*	739 Cambridge St.
Tilton, William Frederic,	*Newport, R. I.*	739 Cambridge St.
Titus, Harry Augustus,	*Newport, R. I.*	6 Felton St.
Tobin, John Joseph,	*Lowell,*	C. 15.
Torrey, David Clarence,	*Easthampton,*	C. 64.
Turnure, George Evans,	*New York, N. Y.*	Beck Building 2.
Tyson, Anthony Morris,	*Baltimore, Md.*	G. 4.
Tyson, Russell,	*Beverly Farms,*	Little's Block 5.
Vaughan, Henry Goodwin,	*Cambridge,*	H'y 6.
Villard, Harold Garrison,	*New York, N. Y.*	739 Cambridge St.
Walker, Bertrand Alfred,	*Chicago, Ill.*	M. 60.
Walker, Charles Howard,	*Concord, N. H.*	M. 28.
Walker, Russell Tyng,	*Exeter, N. H.*	H'y 4.
Walsh, Richard Varick DeWitt,	*Albany, N. Y.*	T. 19.
Wardner, George Philip,	*Dorchester,*	H'ke 47.
Ware, Richard Darwin,	*Boston,*	10 Plympton St.
Warren, Hobert Endicott,	*Cambridge,*	53 North Ave.
Watts, Samuel Hugh,	*New York, N. Y.*	12 Oxford St.
Waughop, Philip Rexford,	*Fort Steilacoom, W. T.*	H'ke 6.
Weed, Fred Denton,	*Binghamton, N. Y.*	W. 37.
Weld, Richard Harding, Jr.	*Boston,*	Little's Block 5.
Wells, Wellington,	*Cambridgeport,*	5 Bigelow St.
Wentworth, George,	*Exeter, N. H.*	866 Main St.
West, George Leon,	*Roslindale,*	C. 66.
Wheelwright, George William, Jr.	*Jamaica Plain,*	16 Winthrop St.
White, Charles James,	*Boston,*	Little's Block 9.
Wicks, Asaph Swift,	*W. Falmouth,*	22 Brookline St., Cambridgeport.
Wolff, Julius,	*New York, N. Y.*	12 Kirkland Pl.
Woods, Thomas Smith,	*Bath, N. H.*	26 Holyoke St.

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Freshman Class.

Allen, Seabury Wells,	*Boston*,	Little's Block 25.
Allen, William Howard,	*Mansfield*,	H'ke 36.
Amory, Arthur, Jr.	*Boston*,	8 Holyoke St.
Amory, William, 3d,	*Brookline*,	M. 19.
Atkinson, Robert Whitman,	*Brookline*,	H'ke 9.
Avery, John Alton,	*Somerville*,	24 Dartmouth St.,
Babbitt, Frank Cole,	*Bridgewater, Conn.*	C. 70. [Somerville.
Baker, Harvey Humphrey,	*Brookline*,	30 Holyoke St.
Baldwin, Herman Trost,	*Jamaica Plain*,	M. 43.
Baldwin, James Dixon Roman,	*New York, N. Y.*	5 Story St.
Bangs, Francis Reginald,	*Boston*,	Little's Block 3.
Barlow, Robert Shaw,	*New York, N. Y.*	24 Holyoke St.
Barnes, Joseph Henry, Jr.	*E. Boston*,	111 Trenton St.,
Barron, Amos Noyes,	*Charlestown*,	W. 26. [E. Boston
Barron, Thomas,	*New York, N. Y.*	H'ke 22.
Bass, John Foster,	*Chicago, Ill.*	47 Brattle St.
Bates, Harry Wakefield,	*Newton Centre*,	15 Ware St.
Beal, George Raynolds,	*Waltham*,	Waltham.
Bean, Charles Harrison,	*Charlestown*,	36 North Ave.
Beer, Walter Eugene,	*New York, N. Y.*	739 Cambridge St.
Belknap, Charles Francis,	*Dorchester*,	42 Mt. Auburn St.
Bell, Samuel Robinson,	*Boston*,	T. 16.
Berry, Edward Sidney,	*Titusville, Pa.*	413 Broadway.
Bigelow, Samuel Lawrence,	*Boston*,	Little's Block 25.
Bishop, Heber Reginald, Jr.	*New York, N. Y.*	Read's Block 30.
Bishop, James Cunningham,	*New York, N. Y.*	Read's Block 30.
Black, Otis Fisher,	*Cambridge*,	10 Avon St.
Blanchard, John Adams,	*Boston*,	Little's Block 30.
Blaney, Charles Crosby,	*Roxbury*,	W. 50.
Bowman, Border,	*Springfield, O.*	10 Remington St.
Brackett, Sewall Carroll,	*Jamaica Plain*,	Shepherd Block 15.
Bradlee, Thomas Stevenson,	*Boston*,	9 Bow St.
Brooks, Arthur Hendricks,	*Cambridge*,	5 Ash St.
Brooks, Franklin Herrick,	*Boston*,	W. 15.
Brooks, Lawrence,	*Boston*,	T. 37.
Brown, Carroll Neidé,	*Cambridge*,	44 Langdon St.
Brown, Frederick Wires,	*Hyde Park*,	W. 50.
Brown, Kenneth,	*Chicago, Ill.*	8 Berkeley St.
Bumpus, Arthur Lewis,	*Quincy*,	65 Oxford St. [ton.
Burke, Francis Edward,	*Boston*,	16 Ashland St., Bos-
Burlingham, Frederic Wright,	*Chicago, Ill.*	Little's Block 27.

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Burr, Arthur Ellington,	*Cambridge*,	780 Main St. [ville.
Bussey, George Daniel,	*Dixmont, Me.*	1 Preston St., Somer-
Cannon, William Morgan,	*Norfolk*,	1 Preston St., Somer-
Chalfant, Henry,	*Allegheny, Pa.*	9 Bow St. [ville.
Chanler, William Astor,	*New York, N. Y.*	Beck Building 33.
Chase, Allan McCleery,	*Cambridge*,	29 Lancaster St.
Chave, Theodore Tayler,	*Denver, Col.*	C. 46.
Chester, Frank Dyer,	*Boston*,	C. 8.
Chittenden, George Herbert,	*Dorchester*,	C. 8.
Clark, Wyly,	*New York, N. Y.*	M. 52.
Clatur, Alfred Alonzo, Jr.	*Boston*,	42 Mt. Auburn St.
Codman, Ernest Amory,	*Boston*,	60 Brattle St.
Codman, Franklin Lincoln,	*Dorchester*,	26 Holyoke St.
Cody, Maurice Jefferson,	*Lexington*,	C. 70.
Copeland, Herbert,	*Boston*,	T. 40.
Corbin, Everett Rogers,	*Batavia, O.*	467 Broadway.
Corning, Henry Wick,	*Cleveland, O.*	739 Cambridge St.
Coues, Franklin,	*Cambridge*,	78 Mt. Auburn St.
Coyle, John Thomas Grant,	*Brighton*,	42 Mt. Auburn St.
Crane, Joshua, Jr.	*Brookline*,	T. 33.
Crane, Newton,	*Newton Highlands*,	H'ke 34.
Crosby, Stephen Van Rensselaer,	*Morristown, N. J.*	59 Brattle St.
Crowninshield, Francis Boardman,	*Boston*,	102 Mt. Auburn St.
Cryder, William Wetmore, Jr.	*New York, N. Y.*	404 Harvard St.
Cummings, Frank Augustus,	*New Bedford*,	96 Prescott St.
Cummings, Harry Irving,	*Merrimac*,	13 Kirkland Pl.
Cummings, John,	*Lynn*,	G. 35.
Cumnock, Arthur James,	*Lowell*,	Read's Block 16.
Curtiss, Frederic Haines,	*Yonkers, N. Y.*	G. 46.
Cushing, Howard Gardiner,	*Boston*,	Little's Block 14.
Dabney, Frederick Lewis,	*Boston*,	8 Appian Way.
Dame, Winthrop Herrick,	*Boston*,	H'ke 49.
Darling, Charles Balfour,	*Woburn*,	C. 39.
Davis, Horace Andrew,	*Cambridge*,	H. 29.
Davis, Robert Howe,	*Cambridge*,	153 Brattle St.
Dean, Dudley Stuart,	*Manchester, N. H.*	Felton Building 13.
Denny, Francis Parkman,	*Brookline*,	H'ke 15.
De Normandie, Philip Yardley,	*Roxbury*,	H'ke 15.
Detrick, Charles Reighley,	*Alameda, Cal.*	25 Holyoke St.
Dodge, John Lockwood,	*Council Bluffs, Iowa*,	M. 18.
Doe, Perley,	*Salmon Falls, N. H.*	Felton Building 36.
Donnelly, Charles Thomas,	*Boston*,	18 Prescott St.
Dudley, Augustus William,	*Presque Isle, Me.*	158 North Ave.

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Duff, John,	*Jamaica Plain*,	Little's Block 27.
Eastman, Charles Rochester,	*Saint Paul, Minn.*	Felton Building 20.
Edwards, James Lewis,	*Quincy*,	S. 2.
Emerson, Kenneth Bales,	*Brattleboro', Vt.*	87 Trowbridge St.
Emerson, Ralph Lincoln,	*Milton*,	Little's Block 30.
Emmons, Alfred Page,	*Roxbury*,	G. 4.
Estes, Frederick Reid,	*Brookline*,	Felton Building 14.
Everett, Otis,	*Boston*,	Little's Block 16.
Everett, Torrey,	*Council Bluffs, Iowa*,	M. 18.
Farquhar, William Joslyn,	*Newton*,	866 Main St.
Fick, John Frederick William,	*Boston*,	42 Mt. Auburn St.
Field, Marshall, Jr.	*Chicago, Ill.*	Beck Building 23.
Finlay, James Ralph,	*Colorado Spr'gs, Col.*	138 Mt. Auburn St.
Fiske, George Stanley,	*Boston*,	Little's Block 26.
Fiske, Harold Brooks,	*Cambridge*,	22 Berkeley St.
Fitzhugh, Edward Fuller,	*Mt. Morris, N. Y.*	8 Holyoke St.
Foley, William Hahn,	*Lincoln, Ill.*	G. 46.
Frame, James Everett,	*E. Boston*,	Shepherd Block 7.
Franklin, Robert Maynard,	*Newport, R. I.*	19 Irving St.
Gambrill, Charles Le Doux,	*Baltimore, Md.*	17 Kirkland St.
Garceau, Arthur Joseph,	*Roxbury*,	884 Main St.
Geary, John White,	*Philadelphia, Pa.*	16 Winthrop St.
George, Herbert Joseph,	*Mendon*,	S. 16.
Goldthwaite, George Tarleton,	*New York, N. Y.*	25 Holyoke St.
Gorey, James Philip,	*Fitchburg*,	646 Cambridge St.
Gorham, John Dwight,	*Marshall, Mich.*	26 Holyoke St.
Gould, Benjamin Apthorp, Jr.	*Cambridge.*	29 Kirkland St.
Gray, John Frederick,	*Scarborough, N. Y.*	Manter Block 8.
Greer, Louis Morris,	*New York, N. Y.*	Felton Building 22.
Griffin, William Lamson,	*Keene, N. H.*	T. 41.
Guerin, Thomas,	*Chicago, Ill.*	48 Holyoke St.
Gulick, Charles Burton,	*Brooklyn, N. Y.*	D. 10.
Hackett, Karleton Spalding,	*Waterbury, Conn.*	H'ke 41.
Hale, Robert Beverly,	*Roxbury*,	C. 28.
Hale, Robert Sever,	*Boston*,	24 Holyoke St.
Hall, Angelo,	*Georgetown, D. C.*	H. 5.
Hall, John Otis, Jr.	*Quincy*,	65 Oxford St.
Halliday, Alexander Brown,	*Yonkers, N. Y.*	T. 42.
Hamburger, Gates,	*Syracuse, N. Y.*	746 Cambridge St.
Harrison, Philip Julian,	*San Francisco, Cal.*	M. 51.
Hayes, Alfred Samuel,	*Boston*,	Shepherd Block 14.
Henderson, John Brooks, Jr.	*St. Louis, Mo.*	10 Remington St.
Henderson, Wilbur Franklin,	*Chicago, Ill.*	96 Prescott St.

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Henshaw, George Bridges,	*Cambridge*,	49 Linnaean St.
Hill, Otis Shepard,	*Portland, Me.*	34 Mellen St.
Hitchcock, Frank Henry,	*Somerville*,	33 Cedar St., Somer-
Holland, Michael Joseph,	*Milford*,	10 Oxford St. [ville.
Holt, Arthur Clark,	*Somerville*,	G. 42.
Hopkinson, Charles Sydney,	*Cambridge*,	W. 38.
Howard, William Guild,	*Boston*,	6 North Ave.
Howe, Otis, Jr.	*Cambridge*,	T. 46.
Howells, John Mead,	*Boston*,	H'ke 3.
Hunt, Daniel Lawrence,	*Roxbury*,	17 Dunster St.
Huntress, Fred Albion,	*Somerville*,	C. 32.
Hurst, Carl Bailey,	*Buffalo, N. Y.*	96 Prescott St.
Hutchinson, James Pemberton,	*Philadelphia, Pa.*	Read's Block 6.
Jenkins, James Rockwood,	*Winchester*,	Lawrence Hall 24.
Jenks, Barton Pickering,	*Boston*,	78 Mt. Auburn St.
Jerris, Frederick Larrabee,	*Portland, Me.*	13 Sumner St.
Jewett, Leonard March,	*St. John, N. B.*	W. 24.
Johnson, Jonathan Edward,	*Nahant*,	C. 27.
Jones, Grahame,	*Chicago, Ill.*	38 North Ave.
Jones, William Preble,	*Somerville*,	Vernon St., Somer-
Keene, George Wheeler,	*Lynn*,	T. 56. [ville.
King, Tarrant Putnam,	*Boston*,	W. 30.
Kohn, Alfred David,	*Chicago, Ill.*	20 Prescott St.
Laflin, Matthew, 2d,	*Chicago, Ill.*	W. 14.
Lamb, George Nichols,	*Cambridge*,	112 Brattle St.
Lapsley, John Willard,	*New York, N. Y.*	408 Harvard St.
Lawrence, John Watson, Jr.	*Flushing, L. I.*	H'ke 8.
Leeds, Richard Arthur,	*Boston*,	712 Cambridge St.
Leiter, Joseph,	*Washington, D. C.*	48 Brattle St.
Leland, Edmund Francis, Jr.	*Boston*,	96 Prescott St.
Lentz, Horace De Young,	*Mauch Chunk, Pa.*	H'ke 38.
Lewis, Richard Field,	*Boston*,	Little's Block 21.
Longworth, Nicholas, Jr.	*Cincinnati, O.*	Hilton Block 6.
Lowell, James Arnold,	*Chestnut Hill*,	Little's Block 15.
Luce, Matthew, Jr.	*Boston*,	Little's Block 15.
McAdams, James Philip,	*Somerville*,	C. 47.
McCoy, James Chester,	*Glen Ridge, N. J.*	Read's Block 28.
McCulloch, Hugh, Jr.	*Mountain View, Va.*	5 Linden St.
McDuffie, Rufus Leighton,	*Cambridge*,	S. 20.
McGeoch, Arthur Nye,	*Milwaukee, Wis.*	11 Mason St.
Mack, Edwin Solomon,	*Milwaukee, Wis*	379 Harvard St.
McKenzie, Kenneth,	*Cambridge*,	12 Garden St.
McPherson, Henry Stephens,	*E. Boston*,	T. 55.

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Magoun, Francis Peabody,	*New York, N. Y.*	Read's Block 22.
Magoun, Kinsley,	*New York, N. Y.*	Read's Block 22.
Marple, Lucius Elliot,	*Wollaston,*	S. 2.
Matthews, Constant Southworth,	*Boston,*	Read's Block 6.
Mead, Glenn Clayton,	*Corry, Pa.*	H. 28.
Meadows, William Gregory,	*Buffalo, N. Y.*	99 Mt. Auburn St.
Mills, Edgar, Jr.	*Menlo Park, Cal.*	19 Irving St.
Mix, Charles Louis,	*Chicago, Ill.*	102 Ellery St.
Moën, Edward Calvin,	*New York, N. Y.*	12 Oxford St.
Morgan, Frederic Grinnell,	*Aurora, N. Y.*	Hilton Block 22.
Morrison, Charles King,	*New York, N. Y.*	Read's Block 26.
Morton, Galloupe,	*Swampscott,*	Hilton Block 11.
Morton, James Madison, Jr.	*Fall River,*	H'ke 34.
Mulford, William Wheeler,	*Cambridge,*	41 Bowdoin St.
Muller, William Augustus,	*Arlington,*	G. 31.
Mumford, Norman Winthrop,	*Rochester, N. Y.*	H'y 10.
Nelson, Murry, Jr.	*Chicago, Ill.*	7 Linden St.
Nichols, Arthur Boylston,	*Boston,*	T. 35.
Norton, Harry Lovett,	*Allston,*	Felton Building 14.
Nutter, Richard Winslow,	*E. Bridgewater,*	Felton Building 8.
Oenslager, John, Jr.	*Harrisburg, Pa.*	T. 26.
Oliver, Andrew, 2d,	*Boston,*	78 Mt. Auburn St.
Osgood, George Laurie, Jr.	*Cambridge,*	20 Ware St.
Page, Curtis Hidden,	*Manchester, N. H.*	D. 18.
Page, Louis Coues,	*Brookline,*	G. 29.
Paine, John Bryant,	*Boston,*	13 Bow St.
Parke, Lewis Gray,	*No. Cambridge,*	24 Arlington St.
Parker, Edward Oliver,	*E. Holliston,*	S. 9.
Parker, Frederic Henry,	*E. Pepperell,*	100 Mt. Auburn St.
Parker, James Alfred,	*New York, N. Y.*	12 Oxford St.
Parsons, Starr,	*Lynnfield Centre,*	Lynnfield Centre.
Pattillo, Guy,	*Gloucester,*	Felton Building 19.
Pease, Harry Hollister,	*New York, N. Y.*	W. 49.
Peckham, Henry Arnold,	*Albany, N. Y.*	M. 9.
Percival, David Crowell, Jr.	*Boston,*	H'ke 36.
Perkins, Nathan Wyman,	*Montvale,*	C. 39.
Perkins, Thomas Nelson,	*Milton,*	Little's Block 29.
Peyster, Clermont Livingston de,	*Tivoli, N. Y.*	Hilton Block 25.
Phinney, Warren,	*Wakefield,*	Wakefield.
Platt, William Barnes,	*New York, N. Y.*	M. 15.
Post, Régis Henry,	*New York, N. Y.*	48 Brattle St.
Potter, George Livermore,	*Roxbury,*	6 Mt. Auburn St.
Potter, Robert Burnside,	*Cambridge,*	19 Ware St.

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Powell, Henry Jacob,	*New York, N. Y.*	H'y 5.
Powers, John Orville,	*Wellesley Hills,*	D. 42.
Priest, George Wesley,	*Watertown,*	C. 33.
Putnam, Charles Russell Lowell,	*Cambridge,*	W. 38.
Randol, William Merwin,	*New Almaden, Cal.*	Shepherd Block 10.
Reed, Willard,	*Somerville,*	21 Cedar St., Somer-
Rhinelander, Philip Mercer,	*New York, N. Y.*	Beck B'ld'g 1. [ville.
Rice, Harry Norman,	*Worcester,*	H'y 14.
Rice, John Wesley,	*Rockland,*	Shepherd Block 7.
Rich, Henry,	*Boston,*	96 Prescott St.
Richardson, John Cole Hayden,	*Brookline,*	24 Holyoke St.
Robinson, Fred Norris,	*Lawrence,*	G. 6.
Rogers, Francis Stetson,	*Roxbury,*	Hilton Block 17.
Roots, Logan Herbert,	*Little Rock, Ark.*	55 Pinckney St.,
Rusch, Henry Arthur,	*Edgewater-on-Hudson, N. J.*	H'y 5. [Boston.
Savage, George Hubbard,	*Chelsea,*	4 Divinity Ave.
Saville, Henry Martyn,	*Cambridge,*	57 Shepard St.
Saville, Sumner Carruth,	*Cambridge,*	57 Shepard St. [ton.
Sawyer, Harris Eastman,	*So. Boston,*	37 Gates St., So. Bos-
Sears, Francis Philip,	*Boston,*	Manter Block 6.
Sears, William Richard,	*Boston,*	100 Pinckney St., Bos-
Sever, Frank Webber,	*Cambridge,*	12 Frisbie Pl. [ton.
Shaw, Quincy Alexander,	*Jamaica Plain,*	Little's Block 4.
Slade, James Henry, Jr.	*Quincy,*	T. 58.
Slattery, Charles Lewis,	*Denver, Col.*	Lawrence Hall 4.
Small, Herbert,	*Boston,*	T. 40.
Smith, Crapo Cornell,	*Detroit, Mich.*	G. 30.
Smith, Charles Wesley,	*Cazenovia, N. Y.*	C. 24.
Smith, Frank Avery,	*Canandaigua, N. Y.*	96 Prescott St.
Stead, Thomas Jefferson,	*New York, N. Y.*	Felton Building 1.
Stearns, Charles Ephraim,	*Waltham,*	15 Appian Way.
Sterne, William Charles,	*Indianapolis, Ind.*	746 Cambridge St.
Stetson, Joseph Austin,	*Roxbury,*	20 Holyoke St.
Stewart, Paul Cox,	*Philadelphia, Pa.*	11 Appian Way.
Stickney, Weston,	*New York, N. Y.*	25 Holyoke St.
Stockton, Lawrence Mason,	*Boston,*	25 Holyoke St.
Stokes, Isaac Newton Phelps,	*New York, N. Y.*	H'ke 27.
Stone, George Henry,	*Greensborough, N. C.*	100 Mt. Auburn St.
Stults, John Dunbar,	*Roxbury,*	T. 51.
Sutro, Alfred,	*San Francisco, Cal.*	25 Holyoke St.
Swan, Charles Louis,	*Stoughton,*	Felton Building 4.
Tallant, Hugh,	*Roxbury,*	C. 34.
Taussig, Albert Ernst,	*St. Louis, Mo.*	M. 46.

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Thomas, James Rochford, Jr.	*New York, N. Y.*	96 Prescott St.
Tudor, Frederic, Jr.	*Boston,*	T. 11.
Turner, Wallace Manahan,	*Worcester,*	Felton Building 2.
Tyson, George,	*Boston,*	52 Brattle St.
Vallé, Paul Barbeau,	*St. Louis, Mo.*	Felton Building 18.
Wainwright, Robert,	*Boston,*	Little's Block 31.
Walcott, Arthur Stuart,	*New York, N. Y.*	10 Remington St.
Walter, Clarence Rosa,	*San Francisco, Cal.,*	739 Cambridge St.
Washburn, Henry Bradford,	*Worcester,*	H'y 22.
Washburn, Robert Morris,	*Worcester,*	H'y 22.
Weeks, Raymond Leslie,	*Kansas City, Mo.*	74 Sacramento St.
Weld, Alfred Rodman,	*Dedham,*	25 Holyoke St.
Weld, Alfred Winsor,	*Boston,*	M. 19.
Wells, Samuel, Jr.	*Boston,*	M. 41.
Wendell, Jacob, Jr.	*New York, N. Y.*	9 Linden St.
Wentworth, Clarence Eugene,	*Cambridge,*	56 North Ave.
West, Montgomery Sears,	*Boston,*	G. 40.
Weysse, Arthur Wisswald,	*West Roxbury,*	22 Mt. Auburn St.
Wheeler, Charles,	*Bryn Mawr, Pa.,*	Beck Building 7.
Whitehouse, Robert Treat,	*Augusta, Me.*	746 Cambridge St.
Whiting, Arthur Bruce,	*New York, N. Y.*	Read's Block 18.
Whiting, Charles Allen,	*New York, N. Y.*	18 Prescott St.
Whittemore, Benjamin Arthur,	*Cambridgeport,*	15 Bigelow St.
Wilcox, Mortimer Oliver,	*Gasport, N. Y.*	D. 38.
Wildes, Maurice Hilger,	*Newton Centre,*	G. 45.
Wilkinson, Harold Sanford,	*Duxbury,*	H'ke 41.
Willard, Charles Wesley,	*Montpelier, Vt.*	16 Story St.
Williams, Allen Hamilton,	*Fort Wayne, Ind.*	18 Berkeley St.
Williams, Ernest Paulinus,	*E. Somerville,*	W. 49.
Williams, Gibson Tenney, Jr.	*Buffalo, N. Y.*	96 Prescott St.
Williams, Moses, Jr.	*Brookline,*	H'ke 9.
Winslow, Charles Fenno,	*Roxbury,*	42 Mt. Auburn St.
Winthrop, Frederic Bayard,	*New York, N. Y.*	Beck Building 21.
Winthrop, Grenville Bayard,	*New York, N. Y.*	10 Plympton St.
Witherle, William Russell,	*Castine, Me,*	C. 41.
Wood, Robert Williams, Jr.	*Jamaica Plain,*	T. 66.
Woodworth, Arthur Vernon,	*Boston,*	26 Holyoke St.
Woomer, George Bentz,	*Lebanon, Pa.*	16 Oxford St.
Wright, Charles Henry Conrad,	*Cambridge,*	56 Buckingham St.

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Special Students.

Alexander, Junius Brutus, Jr.	*Staten Island, N. Y.*	H'ke 35.
Alexander, Lucien Hugh,	*Philadelphia, Pa.*	H'ke 31.
Alger, Cyrus Willis,	*Boston Highlands,*	Lawrence Hall 1.
Allison, Eugene Ellsworth, M.D. (*Bellevue Hosp. Med. Coll.*) 1882,	*Cambridge,*	762 Main St.
Atkinson, William,	*Brookline,*	T. 32.
Austrian, Alfred S,	*Chicago, Ill.*	C. 48.
Ayer, Joseph Cullen, Jr., D.B. (*Epis. Theol. School*) 1887,	*Charlestown,*	[Charlestown. 24 Monument Sq.,
Bailey, Edward Albon,	*Somerville,*	C. 32.
Baker, Edward Larrabee,	*Racine, Wis.*	Beck Building 46.
Ballou, Howard Malcolm,	*Boston,*	13 Claremont Park,
Bartley, Charles Earle,	*Toledo, O.*	T. 24. [Boston.
Bassett, Ralph Waldo Emerson,	*Salem, N. J.*	C. 30.
Bates, Frederick Seward,	*Newton Centre,*	H'ke 31.
Bayer, Stephen Alfred,	*New York, N. Y.*	739 Cambridge St.
Beckwith, Ansel Earle,	*Norwich, Conn.*	D. 32.
Bennett, Carl Kent,	*Owatonna, Minn.*	17 Shepard St.
Benson, Martin Luther,	*Snow Hill, Ind.*	35 Elmer St.
Black, Morris Loveman,	*Cleveland, O.*	C. 48.
Buffum, Charles Wright,	*Owego, N. Y.*	17 Kirkland St.
Bullock, Carl Curtise,	*Chicago, Ill.*	78 Mt. Auburn St.
Burnett, John Torrey,	*Southboro', Mass.*	59 Brattle St.
Butterfield, Eleazer Stuart,	*Dorchester,*	25 Ellery St.
Chase, Rufus Shackford,	*Cambridge,*	Lawrence Hall 6.
Clagstone, Paul,	*Minneapolis, Minn.*	721 Cambridge St.
Clark, Ralph Almon,	*W. Covington, Ky.*	T. 59.
Clark, Robert Jones,	*Boston,*	48 Brattle St.
Cohen, William Bryce,	*Waco, Texas,*	727 Cambridge St.
Cole, William Morse,	*Portland, Me.*	C. 25.
Coulson, Walter,	*Lawrence,*	C. 9.
Craven, Andrew Fuller,	*Oakland, Cal.*	26 Wallace St.
Croly, Herbert David,	*New York, N. Y.*	65 Mt. Auburn St.
Davis, Fred Claussen,	*Cambridgeport,*	326 Broadway.
Davis, Harry Townsend,	*Buffalo, N. Y.*	896 Main St.
Dennett, John, Jr.	*York, Me.*	25 Ellery St.
Embick, John Beck,	*Williamsport, Pa.*	96 Prescott St.
Farquharson, Charles David,	*San Francisco, Cal.*	T. 6.
Flint, Wyman Kneeland,	*Milwaukee, Wis.*	Read's Block 12.
Forbes, Ralph Emerson,	*Milton,*	T. 34.
Ford, John Battice, Jr.	*Creighton, Pa.*	656 Cambridge St.

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Foss, Charles,	*Boston*,	27 Irving St.
Frank, Adolf Richard,	*New York, N. Y.*	739 Cambridge St.
Gates, Stephen Mason,	*Worcester*,	26 Garden St.
Gledhill, Harry Robert,	*Jerseyville, Ill.*	12 Kirkland Pl.
Gould, Edson Jones,	*Rochester, N. H.*	38 Chester St., Somerville.
Graef, Charles Alfred,	*New York, N. Y.*	Felton Building 11.
Griffin, Livingston,	*Pittsburgh, Pa.*	714 Cambridge St.
Hall, Aldis Owen,	*Isle Laillotte, Vt.*	F. R. R. Office, Boston.
Hambleton, Earl Lander,	*Chicago, Ill.*	78 Mt. Auburn St.
Hammond, Edward Crowninshield,	*New London, Conn.*	739 Cambridge St.
Harris, Robert Henry,	*Melrose*,	15 Ware St.
Hawkins, John Walker,	*Taunton*,	Francis Ave.
Healey, Arthur Everett,	*Lynn*,	467 Broadway.
Herrick, Robert Frederick, LL.B. (*Boston Univ.*), 1886,	*Boston*,	H. 25.
Herrick, Roy Durand,	*Minneapolis, Minn.*	Little's Block 1.
Heywood, Charles,	*Gardner*,	404 Harvard St.
Heywood, Dwight Herbert,	*Denver, Col.*	81 Staniford St., Boston.
Higginson, Augustus Barker,	*Lenox*,	Little's Block 32.
Holmes, Alexander,	*Kingston*,	11 Appian Way.
Homans, James Edward,	*Irvington-on-Hudson, N. Y.*	D. 26.
Horne, Charles Caverly,	*Rochester, N. H.*	735 Cambridge St.
Hovey, John William,	*Sutton*,	T. 63.
How, James Eads,	*St. Louis, Mo.*	404 Harvard St.
Hurley, Thomas Bartholomew,	*New York, N. Y.*	
Isham, Ralph,	*Chicago, Ill.*	H'ke 43.
Jones, Everett Starr,	*Spencer*,	Shepherd Block 5.
Keenan, George Edgar,	*Baltimore, Md.*	10 St. James Ave.,
Kellam, Edward Richard,	*Los Angeles, Cal.*	M. 13. [Boston.
Kilvert, Maxwell Alexander,	*Boston*,	S. 11.
Kimberly, Shepard,	*Buffalo, N. Y.*	896 Main St.
Knapp, Edgar Jonas,	*Menomonie, Wis.*	T. 7.
Knapp, Willard Parsons,	*Mooers, N. Y.*	45 Trowbridge St.
Krebs, Franz Hugo, Jr.	*Boston*,	T. 65.
Leach, Joseph Granville,	*Philadelphia, Pa.*	1 Dana St.
Leach, Wilmon Whilldin,	*Philadelphia, Pa.*	1 Dana St.
Lee, Angelo,	*Hartford, Conn.*	C. 11.
Leland, Charles Frothingham,	*New York, N. Y.*	H'ke 8.
Lima, Edward de,	*New York, N. Y.*	750 Cambridge St.
Liscomb, Albert Goodell,	*Worcester*,	Hilton Block 30.
Little, Arthur Malbon,	*Roxbury*,	404 Harvard St.
Longstreth, Joseph,	*Philadelphia, Pa.*	D. 6.

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Lord, Sidney Archer,	*West Medford,*	C. 55.
Lynch, Charles,	*Syracuse, N. Y.*	Little's Block 11.
McAfee, French,	*Port Royal, Pa.*	D. 14.
McFarland, William Hervey,	*New Athens, O.*	8 Sumner St.
MacNichol, George Pope,	*Calais, Me.*	29 Holyoke St.
Mancha, Raymond,	*Claremont, Va.*	M. 16.
Mann, Walter,	*Two Rivers, Wis.*	C. 45.
Mariner, John Watkins,	*Milwaukee, Wis.*	60 Brattle St.
Markoe, James Brown,	*Philadelphia, Pa.*	37 Brattle St.
Marquardt, Harry Stanton,	*Des Moines, Iowa,*	99 Mt. Auburn St.
Mason, Frank,	*Bethel, Me.*	42 Mt. Auburn St.
Mastin, John Jerome, Jr.	*Kansas City, Mo.*	36 Irving St.
Meredith, Sullivan Amory,	*Buffalo, N. Y.*	68 Mt. Auburn St.
Merrill, William Edward,	*Exeter, N. H.*	467 Broadway.
Meyer, Theodore George,	*Fort Wayne, Ind.*	1 Houghton Pl., Jamaica Plain.
Moore, Albert Randell,	*St. Paul, Minn.*	Felton Building 20.
Morgan, Edwin Vernon,	*Aurora, N. Y.*	H'ke 10.
Morrill, George Burnham,	*Portland, Me.*	11 Sumner St.
Neill, Charles,	*Minneapolis, Minn.*	890 Main St.
Nichols, Jesse Gilman,	*Merrimac,*	13 Kirkland Pl.
Noble, Francis Lister Hawks,	*Cambridge,*	21 Concord Av. [ton.
Norman, Bradford,	*Boston,*	343 Beacon St., Bos-
Noyes, James Beaumont,	*Canton,*	Felton Building 9.
Nuss, Henry,	*Cambridge,*	42 Mt. Auburn St.
Page, Harry DeBacon,	*Stanley, N.J.*	Felton Building 21.
Papazian, Garabed Hovannes,	*Constantinople, Turkey,*	4 Divinity Ave.
Papineau, Arthur Bradford,	*Waltham,*	Lawrence Hall.
Parker, Samuel Dunn,	*Boston,*	408 Harvard St.
Pennington, Charles Haines,	*Cleveland, O.*	21 Trowbridge St.
Pfeiffer, Emil Charles,	*Portsmouth, N. H.*	C. 22.
Phelps, George Turner,	*Cambridge,*	77 North Ave.
Reynolds, Francis Joseph,	*Washington, D. C.*	W. 31.
Richards, Herbert Maule,	*Philadelphia, Pa.*	27 Ellery St.
Richardson, Roderick Ware,	*Chicago, Ill.*	H. 22.
Ross, Henry Phipps,	*Fultonville, N. Y.*	Lawrence Hall 2.
Rothschild, Victor Sydney,	*New York, N. Y.*	20 Prescott St.
Ruggles, Nelson John,	*Circleville, O.*	Felton Building 9.
Saltonstall, Philip Leverett,	*Chestnut Hill,*	9 Linden St.
Sawyer, Walter Fairbanks,	*Keene, N. H.*	C. 29.
Schulte, George Bernard,	*Newark, N. J.*	M. 58.
Sears, Richard,	*Boston,*	Manter Block 6.
Shirasu, Bunpey,	*Kobe, Hiogo Ken, Japan,*	138 Mt. Auburn St.

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Simons, Minot Osgood,	*Manchester, N. H.*	16 Mellen St.
Stebbins, Philip Sherwood,	*Denver, Col.*	C. 46.
Stegman, Henry Martin,	*Louisville, Ky.*	C. 33.
Stevenson, Benjamin Cox,	*Indianapolis, Ind.*	404 Harvard St.
Stone, Charles Henry,	*Washington, D.C.*	Felton Building 5.
Sweeny, Arthur,	*New York, N. Y.*	7 Linden St.
Tevis, John,	*Louisville, Ky.*	C. 33.
Thomas, John Willis,	*New Orleans, La.*	2 Butler Court.
Thomson, Edmund Sanford,	*Belchertown,*	M. 30.
Valentine, Edward Archie,	*Chicago, Ill.*	746 Cambridge St.
Walker, James Henry, Jr.	*Chicago, Ill.*	C. 49.
Wiley, Franklin Baldwin,	*New York, N. Y.*	15 Sumner St.
Willard, Richard Dudley,	*Westminster, Vt.*	44 Mt. Auburn St.
Wines, George Sterling,	*Brooklyn, N. Y.*	80 Ellery St.
Wood, Harry,	*Natick, Mass.*	Shepherd Block 8.
Woodworth, Jay Backus,	*Cambridge,*	20 Holyoke St.
Woolsey, Clarence Hood,	*Stone Ridge, N. Y.*	C. 53.
Wright, Eben,	*Nahant, Mass.*	Beck Building 35.
Wynne, Sydney Yale,	*Deerfield,*	86 Irving St.

SUMMARY.

Seniors	237
Juniors	214
Sophomores	251
Freshmen	295
Special Students	141
Total	1138

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HARVARD COLLEGE.

ADMISSION.

I. ADMISSION OF CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS.

The examinations for admission embrace two classes of studies, *Elementary* and *Advanced*.

The elementary studies are not supposed to be equivalent to one another; Greek, Latin, and Mathematics have much greater weight in the examinations than any of the rest.

The advanced studies are supposed to be equivalent in regard to time spent upon them at school, and will have the same weight in the examinations. Each of the advanced studies is taught in College in an elective course (or two half-courses) occupying three hours a week for a year;* and the standard required at the entrance examinations is the same as in the corresponding College courses.

Requirements for Admission to the Freshman Class.

The elementary studies are prescribed for all candidates, except under the conditions named below (paragraphs I. and II.); and every candidate is further required to present himself for examination in not less than two of the advanced studies.

I. The advanced study numbered 6 together with one of the three numbered 7, 8, and 9, may be substituted for either elementary Greek or elementary Latin.

II. Any candidate who passes on one advanced study in addition to the number otherwise required, — thus anticipating an elective study of his College course, — may omit either German or French in the examination for admission, and take it in his Freshman year as part of his regular work, in place of the study anticipated.

* Advanced Greek corresponds to Greek *A*, Advanced Latin to Latin *A*, Advanced German to German 1, Advanced French to French 1, Logarithms and Plane Trigonometry to Math. *A*, Solid Geometry to Math. *E*, Analytic Geometry to Math. *B*, Mechanics to Math. *F*, Advanced Physics to Physics *C*, and Advanced Chemistry to Chemistry *B*. Elementary German and French are also equivalent to German *A* and French *A*.

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A candidate may therefore satisfy the requirements for admission by presenting himself for examination —

(*a*) On all the elementary studies, and on at least TWO of the advanced studies.

(*b*) On all the elementary studies with the exception of either German or French, and on at least THREE of the advanced studies.

(*c*) On all the elementary studies with the exception of either Greek or Latin, and on at least FOUR advanced studies, including 6 and one of the three numbered 7, 8, and 9.

(*d*) On all the elementary studies with the exception of either Greek or Latin and of either German or French, and on at least FIVE advanced studies, including 6 and one of the three numbered 7, 8, and 9.

A candidate may be admitted in spite of deficiencies in some of these studies; but no candidate so admitted will be recommended for the degree until he has made good such deficiencies to the satisfaction of the Faculty.

ELEMENTARY STUDIES.

1. ***English.*** (This study can be presented only at the Final Examination.) The candidate will be required to write a short English composition, — correct in spelling (Worcester's Dictionary is the standard), punctuation, grammar, division by paragraphs, and expression, — upon one of several subjects announced at the time of the examination. In 1888 the subjects will be drawn from one or more of the following works: Shakspere's Julius Cæsar and Twelfth Night; Johnson's Lives of Addison and Pope; Thackeray's English Humorists; Austin Dobson's Eighteenth Century Essays; Pope's Rape of the Lock, and Essay on Criticism; Miss Austen's Pride and Prejudice; Irving's Bracebridge Hall; Macaulay's Lays of Ancient Rome. Every candidate is expected to be familiar with *all* the books in this list.

The candidate will also be required to *correct specimens of bad English* set for him at the time of the examination.

The works prescribed for the examinations of 1889 and 1890 are the following: —

For 1889: Shakspere's Julius Cæsar and As You Like It; Johnson's Lives of Swift and Gray; Thackerey's English Humorists; Swift's Gulliver's Travels; Gray's Elegy written in a Country Churchyard; Miss Austen's Pride and Prejudice; Scott's Rob Roy and Marmion.

For 1890: Shakspere's Julius Cæsar and Midsummer Night's Dream; Macaulay's Life of Johnson, and Essay on Boswell's Life of Johnson; Carlyle's Essay on Boswell's Life of Johnson; Johnson's Vanity of Human Wishes; Goldsmith's Vicar of Wakefield, and Deserted Village; Dobson's Eighteenth Century Essays; Scott's Quentin Durward; Macaulay's Lays of Ancient Rome.

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For 1891: the works prescribed are the same that were prescribed for the examination of 1887.

2. *Greek.* — The translation at sight of simple Attic prose (with questions on the usual forms and ordinary constructions of the language).

3. *Latin.* — The translation at sight of simple prose (with questions as in Greek.)

4 *German.* — The translation at sight of simple prose.

5. *French.* — The translation at sight of ordinary prose.

The passages set for translation in 4 and 5 will be similar to those set at the final examinations in German *A* and French *A* respectively, — college courses each having three hours of instruction a week through the year. A knowledge of the language itself, rather than of the grammar, is expected; but proficiency in elementary grammar or facility in writing the language will be accepted as an offset for some deficiency in translation. It is recommended that attention be given to pronunciation from the outset.

6. *History* (*including Historical Geography*). — Either (1) History of Greece and Rome; or (2) History of the United States and of England.

The following works will serve to indicate the amount of knowledge demanded in History: Smith's Smaller History of Greece (to the death of Alexander); Leighton's History of Rome (to the death of Commodus); Higginson's Young Folks' History of the United States (to the end of Chapter XXI.), and Johnston's History of the United States for Schools (beginning at § 269); Guest and Underwood's Handbook of English History (to the year 1793).

The following selections are recommended for additional reading and will be made the basis of optional questions in the examination: * —

For Greek History: Curtius, History of Greece, Book I. Ch. I., Book II. Ch. IV., and Book III. Ch. III.

For Roman History: Beesly's The Gracchi, Marius, and Sulla; Tighe's Development of the Roman Constitution.

For American History: Lodge's English Colonies, Chapters II. and XXII.; Morse's John Quincy Adams, Chapters II. and III.; Josiah Quincy's Figures of the Past.

For English History: Macaulay's History of England, Chapters I. and III.

7. *Mathematics.* — (*a*) Algebra, through Quadratic Equations. (*b*) Plane Geometry.

* Candidates who take the questions on the Selections will be allowed to omit some of the questions on the corresponding Manual.

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8. *Physical Science.* — Either (1) Astronomy (Lockyer's Elementary Lessons), and Physics (Avery's Elements of Natural Philosophy * or Gage's Elements of Physics); or (2) A course of experiments in the subjects of mechanics, sound, light, heat, and electricity, not less than forty in number, actually performed at school by the pupil. These experiments may be selected from A. M. Worthington's Physical Laboratory Practice (Rivingtons, London, 1886), or from the "New Physics," by John Trowbridge (Appleton & Co., New York), or from any similar laboratory manual.

The Faculty requests all teachers who can command the necessary apparatus to present their pupils in the second of these alternatives. (For the character of the examination on this alternative, see the note under Advanced Studies 8 and 9.)

Advanced Studies.†

The half-courses designated by the letters (*a*) and (*b*) in the studies numbered 3, 6, and 7 may be combined at the option of the candidate, and any two of them will be accepted as the equivalent of one whole study.

1. *Greek.* — The translation at sight of average passages from Homer *or* the translation at sight of less difficult passages from both Homer and Herodotus (with questions on the usual forms and ordinary constructions of the language and on prosody).

2. *Latin.* — The translation at sight of average passages from Cicero and Virgil (with questions as in Greek).

3. *Greek and Latin Composition.* — (*a*) The translation into Greek of a passage of connected English narrative. In 1888 the passage will be based upon some portion of the first five chapters of the first book of Xenophon's Cyropaedia; in 1889 and 1890 upon some portion of the first five chapters of the fourth book of Xenophon's Hellenica. (*b*) The translation into Latin of a similar passage, based upon some portion of Nepos's Lives of Miltiades, Themistocles, Alcibiades, Epaminondas, and Hannibal.

4. *German.* — Lessing (Minna von Barnhelm). — Schiller (Wilhelm Tell). — Goethe (Hermann und Dorothea). — Chamisso (Peter Schlemihl). — Freytag (Aus Neuer Zeit, chapters V., VI., IX.). — Translation at sight of modern German prose. — Grammar and Composition.

5. *French.* — George Sand (Marianne). — Sandeau (Mlle. de la Seiglière, the play). — Augier et Sandeau (Le Gendre de Monsieur Poirier). —

* The following portions of the 1885 edition may be omitted: — sections I. and II. of chap. I. (excepting arts. 23–30), arts. 254–267, 346–349, 371, 411–415, 445–455, 464–467, 470–476, 707–714, 729–745, and the whole Appendix.

† See foot-note on p. 75.

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Henri Gréville (Dosia). — La Fontaine (Fables, books 1 and 2). — Molière (L'Avare). — Racine (Andromaque). — Corneille (Horace). — Translation at sight of modern French prose. — Grammar and Composition.

In 1889, Scribe et Legouvé's Bataille de Dames will be substituted for Augier et Sandeau's Le Gendre de Monsieur Poirier.

In advanced German and French, translation at sight will form an important part of the examination. Candidates will be expected to be familiar with the subject-matter as well as the language of the prescribed books. Some of the latter may be changed from time to time, but with not less than two years' notice. The passages set for translation into German or French will be suited to the proficiency of those who have begun to study the language in College and have had instruction in it three hours a week for two years.

6. *Mathematics.* — (*a*) Logarithms; Plane Trigonometry, with its applications to Surveying and Navigation. (*b*) Either Solid Geometry or the Elements of Analytic Geometry.

7. *Mathematics.* — (*a*) Either the Elements of Analytic Geometry or Solid Geometry. (*b*) Elementary Mechanics.

The following books will serve to indicate the nature and amount of the requirements in Logarithms and Trigonometry, Analytic Geometry, and Mechanics: —

Logarithms and Trigonometry. Wheeler's Logarithms (Cambridge, Sever) or the unbracketed portions of Peirce's Elements of Logarithms (Boston, Ginn & Co.). Wheeler's Plane Trigonometry (same publishers). Problems in Plane Trigonometry (Cambridge, Sever). Peirce's Mathematical Tables (Boston, Ginn & Co.).

Analytic Geometry. Briggs's Analytic Geometry (New York, Wiley & Co.).

Mechanics. Goodwin's Elementary Statics (London, Bell & Sons; Cambridge, Sever). A collection of answers to the examples in this book will soon be published.

8. *Physical Science.* — Physics. A course of at least sixty experiments in addition to those of the elementary Physics 8 (2), selected from the same or similar manuals, and covering the same subjects, but demanding more skill and more knowledge of physical theories and laws.

9. *Physical Science.* — Chemistry. A course of at least sixty experiments in General Chemistry actually performed at school by the pupil.

In the second of the alternatives in elementary Physics, in advanced Physics, and in Chemistry, the candidate will be required to pass both a written and a laboratory examination. The written examination will be

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directed to testing the candidate's knowledge of experiments and experimenting as well as his knowledge of the principles and results of the respective sciences. The laboratory examination will be directed to testing his skill in experimenting. At the hour of the written examination the candidate will be required to hand in the original note book in which he recorded the steps and results of the experiments which he performed at school; and this note-book must bear the endorsement of his teacher, certifying that the notes are a true record of the pupil's work.

A candidate examined in June at any place where a laboratory examination is not provided will be required to take such examination in Cambridge in September; but if he passes the written examination in June, the subject will be counted in his favor in determining the question of his admission to College.

Most pupils will need lectures or other oral explanations in addition to the descriptions given in the laboratory manuals. When it is impossible to provide lectures, an additional text-book made from a different standpoint will be found of advantage.

Descriptive lists of experiments which will meet the requirements in Physics and Chemistry may be procured of CHARLES W. SEVER, Bookseller, Harvard Square, Cambridge. Three pamphlets, price 30 cents each.

The passages set for translation must be rendered into simple and idiomatic English. Teachers are requested to insist on the use of good English as an essential part of the candidate's training in translation.

In Latin the following pronunciation is recommended: — *ā* as in *father*, *ă* the same sound but shorter; *ē* like *ê* in *fête*, *ĕ* as in *set*; *ī* as in *machine*, *ĭ* as in *sit*; *ō* as in *hole*, *ŏ* as in *nor*; *ū* as in *rude*, *ŭ* as in *put*; *j* like *y* in *year*, *c* and *g* like Greek *κ* and *γ*.

In addition to the use of the text-book, it is recommended that pupils be accustomed, from the beginning of the preparatory course, to translate into Latin, both orally and in writing, passages prepared by the teacher on the basis of the prose authors read.

Instructors are requested to teach their pupils in pronouncing Greek to use the *Greek accents*, and to give (for example) *α* the sound of *a* in *father*, *η* that of *a* in *fate*, *ι* that of *i* in *machine*, etc.

A set of recent examination papers will be sent to any address, on application to the Secretary.

EXAMINATIONS.

The examinations in the elementary studies will occupy one hour each, with the exception of that in English, which will occupy an hour and a

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half, and those in Greek, Latin, and Mathematics, which will occupy two hours each. The examinations in the advanced studies will each occupy two hours.

If a study consists of two parts, designated by the letters (*a*) and (*b*), the examinations in those parts may be taken separately by a candidate who divides his examinations for admission either between two years or between June and September of the same year. The remaining subjects cannot be divided.

Division of the Examination.

A candidate for admission may, at his option, pass the entire examination at one time; or he may divide it (1) between two years, or (2) between the two examinations of the same year, under the following conditions: —

1. *Preliminary examination.* He may pass a preliminary examination on a part of the studies, and be examined on the remaining studies in some subsequent year. For the preliminary examination the candidate must present himself *in June.* No one will be examined in September unless for exceptional reasons he has received from the Dean special permission to take the examination at that time.

English must be reserved for the candidate's final examination for admission. With this exception, candidates may offer themselves for the preliminary examination in any studies, elementary or advanced, *in which their teachers certify that they are prepared,* and a certificate will be granted to any candidate who passes on studies occupying, in the aggregate, five hours on the examination programme. No account will be made of the preliminary examination, and no certificate will be given, unless the candidate has passed satisfactorily in examinations occupying at least five hours.

The certificates of candidates to be examined in Cambridge must be in the hands of the Secretary on or before June 22, and those of candidates to be examined elsewhere on or before June 15; and no person will be received at the preliminary examination who has not presented his certificate at the required time.

2. A candidate who presents himself in June intending to pass the whole examination in the same year may postpone, until September, any studies not occupying, in the aggregate, more than six hours on the examination programme. But he will not be examined in September in any subject in which he has failed in June.

Optional Examinations. Anticipation of College Studies.

In addition to the examinations required for admission to College, optional examinations are provided for such candidates as have extended their studies beyond the requirements. At these examinations a higher

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standard of proficiency is demanded than at the examinations for admission.

I. A candidate may present himself for examination in any of the Advanced Studies not offered by him for admission, and thus qualify himself to pursue more advanced courses in those subjects in College.

II. A candidate may present himself for additional examination in one or more of the following studies: (*a*) the prescribed courses of the Freshman year (see p. 84); (*b*) any elective courses open to Freshmen (see p. 90).

The examinations on prescribed Freshman studies and on those elective studies which are identical with "Advanced Studies," on pages 78–80, may be taken either in June or in September, or partly in June and partly in September; but a candidate who fails to pass in any study in June will not be examined on that study again in September.

The examinations on *other elective* studies are held *in September only*. Candidates who wish to take such examinations are required to send notice of their intention to the Secretary not later than *September 20*.

For times and place of examination, see p. 85.

Uses of Optional Examinations.

A principal aim in providing these optional examinations is to encourage teachers to carry the studies of their brighter and more diligent pupils beyond the bare requirements for admission, in whatever direction taste or opportunity may suggest. Full employment may thus be secured for the most capable student until he is thought mature enough to enter College, while his greater progress in school will make his College course more profitable, by enabling him either to take up his studies at a more advanced stage, or to give more time to the studies of his choice.

A student who has anticipated any of the studies of the Freshman year by means of the optional examinations may substitute in place thereof any elective courses which he is qualified to pursue.

A student who, besides passing a creditable examination for admission to the Freshman class, has anticipated Freshman studies, may, if he see fit, count them toward his degree in either of the following ways: —

1. He may obtain permission to reduce, by the amount of the studies anticipated, the number of courses regularly required in the Senior or in the Senior and Junior years: provided that the reduction shall not exceed one full course in either year. Such permission will be granted, however, only for the purpose of enabling him to devote the time thus gained to his remaining studies.

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2. If he has anticipated Freshman studies amounting to a substantial portion of the year's work, and desires to fulfil the requirements for the degree in three years, he may apply to the Faculty for leave so to do, specifying in his application the manner in which he proposes to arrange his studies for that purpose. The Faculty will decide on such applications according to the circumstances of each case.

Admission to Advanced Standing.

I. By examination. A candidate may be admitted to the Sophomore, Junior, or Senior Class, if he appear on examination to be well versed in the following studies: —

1. In the studies required for admission to the Freshman Class (pp. 75–80).

2. In all the prescribed studies already pursued by the class for which he is offered; and in as many elective studies as he would have pursued if he had entered at the beginning of the course (p. 89).

A candidate may be admitted in spite of deficiencies in some of these studies; but no candidate so admitted will be recommended for the degree until he has made good such deficiencies to the satisfaction of the Faculty.

Candidates for admission to advanced standing may be examined on the studies required for admission to the Freshman Class, on the *prescribed* studies of the Freshman year, and on such elective studies as are identical with the "Advanced Studies" of the examination for admission,* at the time of either of the regular examinations for admission (see pp. 85–87), or they may divide the examination and take part in June and part in September, but a candidate who fails on any subject in June will not be examined again in that subject in September.

Examinations on *other elective* studies are held only in the *autumn*. Candidates are required to inform the Secretary not later than *September 20*, of the elective courses on which they wish to be examined.

II. Without complete examination. Graduates of other colleges, and students from the higher classes of other colleges, are admitted to advanced standing, without examination, on presenting testimonials of scholarship and character and satisfactory evidence of work well performed in the institutions previously attended. Such graduates, or students, are assigned to that class for which their previous training seems to qualify them. Every case is decided on its own merits; but as a rule students from other colleges are not admitted *ad eundem* without examination.

Applications are promptly dealt with, at any season of the year, by a committee of the Faculty. Every person desiring to enter under this provision must present a complete statement of the work on which he bases

* See foot-note on p. 75.

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his application; and should state his age, the name of the school or schools at which he received his preparatory training, the length of time he was in attendance, and the studies he pursued, the date of beginning each of the leading studies, the amount of time devoted to each, and the point of advancement reached therein before entering college. In every case in which the printed announcement is indefinite, he must supply the more definite facts (as, for example, when Horace is named as one of the authors studied, without specifying the precise portions read; or when Botany is mentioned as a study, without specification of the extent and character of the work). Also whenever the course actually pursued differed in any respect from the printed announcement, the applicant must supply the correction necessary to make the statement exact.

Much importance is attached to the quality of the work offered in these cases. Each applicant is therefore expected to furnish official statements showing the rank or grade attained by him in his various studies, together with letters, or other evidence, showing the opinion his instructors have formed regarding his character as a student.

Candidates from other colleges may be admitted to the higher classes of Harvard notwithstanding deficiencies in some studies, on condition of making up these deficiencies before receiving the degree. Deficiencies in one direction may, however, be offset by unusual attainments in some other. For example, courses of study in professional schools may sometimes be counted in lieu of elementary deficiencies.

Persons admitted to advanced standing are entitled to compete for scholarships, and to obtain beneficiary aid, on an equal footing with other students.

Blank forms for application for admission to advanced standing may be obtained from the Secretary of the University, No. 5 University Hall, Cambridge.

Prescribed Studies of the Freshman Year.

The following statement of the prescribed studies of the Freshman year will serve for the guidance of those who are preparing to take in 1888 the examinations for advanced standing or for the anticipation of Freshman studies. For elective studies, see p. 90.

1. Rhetoric and English Composition. — Hill's Principles of Rhetoric, including the Appendix on Punctuation. — Lectures on the lives and writings of Dryden, Pope, Swift, Addison, Steele, Defoe, Fielding, Johnson, Goldsmith, Sterne, and Burke. — Practice in Writing. *Three hours a week.*

2. German *or* French (the one not offered by the student for admission). The examinations are identical with those on Elementary Studies 4 and 5, page 77.

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3. CHEMISTRY. — Lectures. *Once a week, first half-year.*

[Candidates may prepare themselves on Cooke's New Chemistry,* Chapters II.–XII.]

4. PHYSICS. — Lectures. *Once a week, second half-year.*

[Candidates may prepare themselves on Tyndall's Heat as a Mode of Motion, pages 1–200.]

Times and Places of Examination.

EXAMINATION FOR ADMISSION TO THE FRESHMAN CLASS.

Two regular examinations† for admission to the *Freshman* Class are held each year, — one at the beginning of the summer vacation, and the other at the beginning of the academic year in the autumn.

In 1888, the *first examination* will be held at the following places on Tuesday, Thursday, Friday, and Saturday, June 26, 28, 29, and 30: in *Cambridge*, in Sever Hall; in *Quincy*, in rooms of the Adams Academy; in *Andover*, in rooms of the Phillips Academy; in *Exeter, N. H.*, in rooms of the Phillips Exeter Academy; in *New York*, in the lecture-room of the Young Men's Christian Association, Twenty-third Street, corner of Fourth Avenue; in *Philadelphia*, in the library-hall of the Academy of Natural Sciences, S.W. corner of Nineteenth and Race Streets; in *Cincinnati*, in the rooms of the Law School, College Building, Walnut Street; in *Chicago*, in the Hoyne School Building, corner of Illinois and Cass Streets; in *St. Louis*, in the Central High School Building, corner of Olive and Fifteenth Streets; in *San Francisco*, in rooms of the Boys' High School, on Sutter Street, between Gough and Octavia Streets; and in some convenient city in Europe, to be announced hereafter.

The *second examination* will be held *in Cambridge only*, on Tuesday, Wednesday, Thursday, and Friday September 25, 26, 27, and 28.

Candidates who wish to take the examinations in the advanced studies numbered 7 (*b*), 8, or 9, must assemble punctually at 2.30 o'clock P.M. on the *first* day of examination (Tuesday, June 26, or Tuesday, Sept. 25); all other candidates must present themselves at 8 o'clock A.M. on the *second* day of examination (Thursday, June 28, or Wednesday, Sept. 26.)

Candidates who intend to be examined in any other place than Cambridge are required to send their names to the Secretary *in time for him to receive them by June 15th*; and, if they wish to take any of the examinations of the *first day*, they must state the fact at the same time.

A fee of five dollars is to be paid in advance by every candidate who is examined at any place other than Cambridge. The whole fee of a candi-

* Of Appleton's International Series.

† A candidate who fails at the first examination to pass in subjects occupying, in the aggregate, at least *six* hours on the examination programme will not be admitted to the second examination of the same year.

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date who proposes to divide his examination between two years is payable in the year when he begins his examination. The fee should be sent by check, postal order, or registered letter to ALLEN DANFORTH, *Bursar*, Cambridge, Mass., at the same time that the candidate sends his name to the Secretary.

Persons who do not intend to enter College will be admitted to the examinations at other places than Cambridge on payment of a fee of five dollars; and, if successful, will receive certificates to that effect.

Order of Examinations.

FIRST DAY.

3–4. Mechanics.
4–5. Advanced Physics (written examination).
5–6. Advanced Chemistry " "

SECOND DAY.

8 A.M. Applicants meet the officer in charge of the examination.

9–11.	Elementary Latin.	3–4.	Latin Composition.
11½–1½.	Elementary Greek.	4–6.	Advanced Latin.
2–3.	Analytic Geometry.		

THIRD DAY.

8–9.	Elementary Physics.	12½–2.	English.
9–10.	Plane Geometry.	3–4.	Greek Composition.
10–11.	Algebra.	4–6.	Advanced Greek.
11½–12½.	History.		

FOURTH DAY.

8–10.	Advanced French.	12½–1½.	Elem. French (French *A*).
10½–11½.	Log. and Trigonometry.	3–4.	Elem. German (Germ. *A*).
11½–12½.	Solid Geometry.	4–6.	Advanced German.

Laboratory examinations in Physical Science will be provided (in Cambridge only) on the *third* and *fourth* days, at hours to be appointed for the several candidates. Due notice will be given of these appointments.

EXAMINATION ON THE PRESCRIBED STUDIES OF THE FRESHMAN YEAR.

In 1888, the first examination will be held on Tuesday, June 26, and the second on Tuesday, September 25, in accordance with the programme given below. These examinations are held in Cambridge only.

Order of Examinations.

TUESDAY, JUNE 26 OR SEPTEMBER 25.

8½ A.M. Applicants assemble in Sever Hall.

9–11.	English A.		
11½–12½.	Physics A.	12½–1½.	Chemistry A.

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The examinations in French *A* and German *A* are identical with the admission examinations in Elementary French and German. See Programme of fourth day above.

Examinations on Elective Studies.

Examinations on elective studies that are not equivalent to advanced entrance studies are held in the autumn only, and nowhere but in Cambridge. Candidates will present themselves in Sever Hall at 8½ A.M., on Tuesday, September 25. The examinations on such elective studies as are equivalent to advanced entrance studies (see foot-note on page 75) are identical with the examinations on the latter, and may be taken at the same times and places.

No person will be examined for admission to College at any other times than those above specified.

Testimonials.

All candidates for admission are required, before examination, to furnish certificates of good moral character; and students from other colleges are required to furnish certificates from those colleges of honorable dismission. These certificates must be sent through the mail by their writers to the Secretary of Harvard University at least one week before the date of the examination. *Candidates who divide the examination must furnish their testimonials at the time of their final examination for admission.*

II. ADMISSION WITHOUT EXAMINATION. SPECIAL STUDENTS.

The courses of study in Harvard College are open to persons who satisfy the Faculty of their fitness to pursue the particular courses they elect, although they have not passed the usual examination for admission to College. These students are known as Special Students; they are members of the College from the time of their admission, but are not candidates for the degree of Bachelor of Arts.

Candidates for admission to the College as Special Students will be furnished by the Secretary (No. 5, University Hall), on request in person or by letter, with a blank form of application, which should be duly filled out and returned to the Secretary. Candidates are advised to submit their applications, if possible, before the middle of July. Such applications will be acted upon promptly and the decision of the committee at once made known to the candidate. Applications will be received later in vacation, but equally prompt action upon them cannot always be secured.

Special Students are admitted to College by a committee of the Faculty, to whom their choice of studies must be submitted for approval at the be-

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ginning of each year; and their work is carried on under the constant supervision of this committee.

Special Students are subject to all the regulations of the College; their names are entered upon the annual rank-lists, and these lists are sent to their parents or guardians; and they are allowed to compete for Honors on the same terms as undergraduates

The Faculty reserve the right to deprive any Special Student of his privileges at any time, if he abuse or fail to use them.

A certificate of proficiency will be given, if desired, to any Special Student who has faithfully pursued his chosen subjects throughout a year and attained a grade not lower than Grade *B** therein.

Any Special Student who has passed in twelve elective courses, and has stood above Grade *C** in six courses (or their equivalent), without falling below Grade *C* in any course, shall receive a certificate on Commencement Day, and shall have his name printed on the Commencement Programme as a Candidate for a Certificate.

Any Special Student who has taken Honors shall receive a certificate on Commencement Day, shall have his name printed on the Commencement Programme both as a Candidate for a Certificate and a Candidate for Honors; and shall have his name in the next Annual Catalogue in the list of students to whom Honors have been awarded.

Registration.

Special Students who are already members of the College, and candidates whose applications have been approved by the committee, will present themselves for registration on the Thursday following the last Wednesday in September, at an hour and place to be announced on the official bulletin-board in University Hall.

* See p. 92.

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COURSE OF STUDY

FOR THE DEGREE OF BACHELOR OF ARTS.

Prescribed Studies.

The following studies are prescribed for all candidates for the degree of Bachelor of Arts: —

Freshman Year.

Rhetoric and English Composition. (English *A*.) *Three times a week.*
Chemistry. (Chemistry *A*.) *Lectures, once a week, first half-year.*
Physics. (Physics *A*.) *Lectures, once a week, second half-year.*

Also German *or* French. (German *A* or French *A*.) *Three times a week.* Prescribed for those only who did not present themselves for examination on the study at entrance.

Sophomore Year.

Twelve Themes: with lectures and discussions of themes. (English *B*.)

Junior and Senior Years.

Forensics: * a forensic, a thesis, and an examination in argumentative composition in each year. (English *C* and *D*.)

Elective Studies.

Elective studies are classified as courses and half-courses, according to the estimated requirement of work in each. Every candidate for the degree is required to pursue each year *four* elective courses, or an equivalent amount of courses and half-courses; but of Freshmen for whom French or German is a prescribed study, *three* elective courses only are required. Of the elective courses required of Freshmen, not more than two may be taken in the same department.

No student is allowed, except by special permission of the Dean, to arrange his work so as to take less than the equivalent of three half-courses during either half-year.

The prescribed and elective studies required of each student, as specified above, together with such additional studies (if any) as he may take for the purpose of making up past deficiencies, constitute his regular work

* For Forensics *candidates for Final or Second-Year Honors* may substitute Theses in their special departments, provided such substitution be approved by the Instructors in those departments, and by the Instructor in Forensics; but no thesis that forms part of the work in any of the student's regular courses may be so substituted. A Commencement Part may be substituted for the Thesis of the Senior Forensic course; but in order to be accepted for this purpose, it must be handed in on or before the *third Wednesday in April.*

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for the year. Outside of his regular work a student is at liberty to take as many elective studies as he can profitably pursue, provided that, when making his choice, or at some time not later than November 1, he shall designate which are his regular and which are his *extra* courses. For work done in *extra* courses he may receive credit on the special scale of each course; but such work is not counted towards fulfilling the requirements for the degree.

Choice of College Studies.

Students are required to make their choice of elective studies before the beginning of each academic year, in accordance with the regulations published by the Faculty in the Annual Announcement.

No changes of elective studies are allowed after October 20, except by leave of a committee of the Faculty, to whom application must be made in writing, with a full statement of the reasons for the proposed change.

In making his choice, the student is limited to those studies which his previous training qualifies him to pursue, and he must observe any restrictions that may be attached to the particular courses he wishes to select. He is further required to avoid any conflict of recitation hours or of examinations (see page 126) between his elective courses.

No starred (*) course can be chosen without the *previous* consent of the Instructor.

Of the *Courses for Special Research* not more than one can be taken in the same year by an undergraduate.

The following elective courses are open to Freshmen: —

Greek *A*, *B*, *C*, *E*.
Latin *A*, *B*, *C*, *D*, *E*.
German 1, 2, 9.
French 1, 2, 9.
History 1, 2.
Mathematics *A*, *B*, *C*, *D*, *E*, *F*, *G*, 1.
Physics *B*, *C*, 1, 2.
Chemistry *B*, *C*, 1, 2.
Natural History 1, 2, 3, 4, 4*a*.

Any Freshman, however, who is qualified to pursue a higher course in any of the above departments, may obtain leave to do so.

No study which the student presented in satisfaction of the requirement for admission can be counted as a part of his Freshman work; but he may take such a study in addition to his regular work, for the purpose of removing a condition.

Students are strongly urged to make their choice with the utmost care, under the best advice, and in such a manner that their studies from first to last may form a rationally connected whole. It is believed that any plan of study, deliberately made and adhered to, will be more profitable to the

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student than studies chosen by him from year to year, without plan, under the influence of temporary preferences.

It will be seen that students who prefer a course like that usually prescribed by American colleges can easily secure it by a corresponding choice of studies; while others, who have decided tastes, or think it wiser to concentrate their study on a few subjects, obtain every facility for doing so.

Undergraduates who intend to study Engineering are advised by the Scientific Faculty to consult the Professor of Engineering with reference to the best courses for them to take in College; and those who intend to study Medicine are advised by the Medical Faculty to pay special attention to the study of Natural History, Chemistry, Physics, and the French and German languages, while in College.

The following subjects are recommended by the Law Faculty as especially useful to undergraduates who intend to study Law: Latin, French, Themes and Forensics, Elocution, Oral Discussion, Rhetoric, Logic, Ethics, Political Economy, Constitutional and Legal History and the History of Institutions, International Law and Roman Law.

Registration, Residence, and Attendance.

Every student is required to present himself for registration on Thursday, the first day of the academic year, between the hours of 9 A.M. and 1 P.M., at a place announced on the bulletin boards.

Continuous residence at the University is required during term-time. Any student whose residence is interrupted for any cause is required to give immediate notice of the fact to the Secretary; and if his absence is prolonged beyond three days, he is further required to report in person to the Secretary immediately on his return.

Any student who has been prevented by serious illness or other exceptional reason from attending college exercises for a definite period, is expected to present to the Secretary, within one week after his return to duty, a clear and explicit statement of the cause of his absence; and if his explanation is deemed sufficient, that fact will be entered on his record. But statements relating to occasional brief indisposition or to causes of absence not strictly unavoidable are not expected, and will not be entered on the record.

Habitual or continued absence from college exercises, or irregularity of attendance in the absence of a counter presumption raised by the student's standing as a scholar, will be deemed *prima facie* evidence that the student is not fulfilling the purposes of his residence at the University, and may be made the ground of inquiry into his conduct and purposes, and of action on the part of the Faculty.

Every student is required to satisfy the instructor in each of his courses of study, in such way as the instructor may determine, that he is per-

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forming the work of the course in a systematic manner. Instructors will report to the Dean from time to time the names of such of the students in their courses as have not satisfied them in this respect.

Any instructor, with the approval of the Dean, may at any time exclude from his course any student who in his judgment has neglected the work of the course. Such exclusion shall be reported to the Faculty at its next meeting.

Scales of Scholarship.

At the end of every academic year the standing of the several students in each course is expressed by assigning each of them, according to his proficiency, to one of five grades, designated respectively by the letters *A*, *B*, *C*, *D*, *E*.

Students who have failed on the course will be assigned to Grade *E*.

Degree of Bachelor of Arts.

No student will be recommended for the degree of Bachelor of Arts until he has passed in all prescribed studies and in the requisite number of elective courses; and has moreover stood above Group *D* in at least one fourth of all his college work.

Any student who has not complied with the requirements for a degree before the end of his college course may be recommended for a degree in any subsequent year, when he shall have made up all deficiencies in his record.

A student recommended for the degree of Bachelor of Arts may be recommended either for an *ordinary* degree or for a degree *with distinction* in one of three grades.

Every member of the graduating class who has stood in Grade *A* in three fourths of his college work and has not fallen below Grade *C* in any study, who has received Highest Honors in any department, will be recommended for a degree *summa cum laude*.

Every member of the graduating class (not recommended for the degree *summa cum laude*), who has stood in Grade *A* in one half of his college work and has not fallen below Grade *C* in any study, or who has received Honors in any department, will be recommended for a degree *magna cum laude*.

Every member of the graduating class (not recommended for a degree *summa cum laude* or *magna cum laude*), who has stood above Grade *C* in one half of his college work or who has received Honorable Mention in any department, will be recommended for a degree *cum laude;* provided, however, that he has not in either case fallen below Grade *C* in any study.

The reason for the grade of distinction in the degree is stated in the diploma; and where two reasons exist. both are stated.

Parts at Commencements are assigned to those students who receive a degree with distinction.

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COURSES OF INSTRUCTION.

An asterisk (*) denotes that the course cannot be taken without the *previous* consent of the Instructor. Of the courses omitted this year, those enclosed in square brackets were not *offered*.

Semitic Languages.

1. Hebrew. — Davidson's Grammar. — Harper's Hebrew Method and Manual. — Harper's Elements of Hebrew. — Explanation of parts of the Pentateuch, Historical Books, and Psalms. *Mon., Wed., Fri., at 3.* Mr. JEWETT.

2. Hebrew (Second Course). — Syntax. — Interpretation of parts of the Prophets and Poetical Books. *Mon., Wed., at 3.* Professor LYON.

3. Classical Aramaic (Syriac). — Grammars of Uhlemann and Nöldeke. — Rödiger's Chrestomathy. — The Peshitto version of the New Testament. *Half-course. Tu., Th., at 10 (first half-year).* Professor LYON.

Omitted in 1887–88.

10. Jewish Aramaic. — Kautzsch's Grammar. — Brown's Aramaic Method. — Interpretation of selections from the Targums, and from Daniel and Ezra. *Half-course. Tu., Th., at 10 (second half-year).* Mr. JEWETT.

4. Assyrian. — Lyon's Assyrian Manual. — Delitzsch's Assyrische Lesestücke. *Tu., Th., at 9.* Professor LYON.

5. Assyrian (Second Course). — The Cuneiform Inscriptions of Western Asia (Interpretation of selections). *Tu., Th., at 2.* Professor LYON.

Omitted in 1887–88.

11. Assyrian (Third Course). — Interpretation of bilingual texts (Sumero-Akkadian with Assyrian translation) from Vols. I., IV. of The Cuneiform Inscriptions of Western Asia. *Half-course. Fri., at 12.* Professor LYON.

6. Babylonian-Assyrian History from native sources, with comparison of the Greek and Roman writers. *Half-course. Fri., at 2.* Professor LYON.

Omitted in 1887–88.

7. Arabic. — Socin's Grammar. — The Thousand and One Nights. *Mon., Wed., at 2.* Mr. JEWETT.

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8. Arabic (Second Course). — Wright's Grammar. — Interpretation of parts of the Moallakāt, Motanebbi and other Poets, and the Korān. *Tu., Th., at 3.* Mr. JEWETT.

9. Ethiopic. — Dillmann's Grammar and Chrestomathy. *Half-course. Fri., at 12.* Mr. JEWETT.

[12. General Semitic Grammar. *Half-course. Sat., at 9.* Professor TOY.]

Omitted in 1887–88.

Course 12 can be taken only by those who are acquainted with at least three Semitic languages, of which one must be Arabic.

The Semitic Seminary meets on the first and third Mondays of each month, at 7½ P.M.

Indo-Iranian Languages.

1. Sanskrit. — *First half-year:* Perry's Primer (Sanskrit into English and English into Sanskrit). — Reading at sight. — *Second half-year:* Whitney's Grammar. — Lanman's Reader (Nala, Fables from the Hitopadeça, and Stories from the Katha-sarit-sagara). — Lectures on the Literature of India. *Mon., Wed., Fri., at 3.* Professor LANMAN.

2. Sanskrit (Advanced Course). — *First half-year:* Rapid reading of easy Sanskrit texts. — *Second half-year:* Lanman's Reader (the Vedic part). — Hillebrandt's Veda-chrestomathie (Hymns of the Rig- and Atharva-vedas). — *Mon., Wed., Fri., at 2.* Professor LANMAN.

3. Sanskrit Poetry. — Kalidasa's Cloud-Messenger. — Kalidasa's Birth of the War-God. — Bhartrihari's Stanzas. *Tu., Th., Sat., at 12.* Professor LANMAN.

[4. Old Iranian. — Reading of the Avesta. *Tu., Th., from 2 to 3½.* Professor LANMAN.]

Omitted in 1887–88.

5. Pāli. — Ed. Müller's Simplified Grammar. — Elwell's Nine Jatakas. — Extracts from the Sacred Books on the Life and Death of Buddha. *Tu., Th., from 2 to 3½.* Professor LANMAN.

Omitted in 1887–88.

An exercise in cursory reading will be held every Thursday evening at the Instructor's study. During the last two years the Maha-bharata was chosen.

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Greek.

A. Herodotus (Selections).—Homer (Selections from Books I.–XII. of the Iliad). — Reading at sight. *Tu., Th., Sat., at 11.* Dr. MORGAN.

Course *A* is intended for Freshmen who presented only the Prescribed or Elementary Greek in the examination for admission. It cannot be counted for Honors.

B. Lysias (Selected Orations). — Plato (Apology and Crito). — Homer (Odyssey, Books VII.–XII.). — Euripides (Medea). — Reading at sight. — Goodwin's Moods and Tenses. *Mon., Wed., Fri., at 12.* Professors J. W. WHITE and WRIGHT, Dr. FOWLER, and Dr. MORGAN.

C. Lysias (Selected Orations). — Plato (Apology and Crito). — Homer (Odyssey, Books I.–VI.). — Aristophanes (Clouds). — Reading at sight. — Goodwin's Moods and Tenses. *Mon., Wed., Fri., at 3.* Professors J. W. WHITE and WRIGHT, Dr. FOWLER, and Dr. MORGAN.

Courses *B* and *C* are parallel courses and cannot both be taken by the same student. In addition to the books of Homer mentioned above, six of the last twelve books of the Odyssey will be translated to the students in these courses by Professor PALMER.

Courses *B* and *C* are open to Freshmen who presented the Elective or Advanced Greek for admission, and to Sophomores who have passed in Course *A* in their Freshman year. They cannot be counted for Final Honors, but either of them may be counted for Second-Year Honors.

E. Greek Composition (First Course). *Half-course. Mon., and alternate Fri., at 2.* Dr. MORGAN.

Course *E* may be counted for Second-Year, but not for Final, Honors.

1. Sophocles (Ajax). — Aristophanes (Acharnians). — Thucydides (Book V.). *Tu., Th., Sat., at 9.* Dr. FOWLER.

2 Sophocles (Oedipus Tyrannus). — Thucydides (Selections from Books VI. and VII.). — Aristophanes (Birds). *Tu., Th., Sat., at 10.* Professor J. W. WHITE.

Either Course 1 or Course 2 may, with the consent of the Instructor, be taken during either half-year as a half-course.

3. Greek Composition (Second Course). — Sidgwick's Greek Prose Composition (Part III.). *Half-course. Tu., at 12 and 3.* Professor WRIGHT.

Course 3 is intended especially for candidates for Second-Year Honors in Classics. The Final Examination in this course is identical with the Special Examination in Greek Composition for Second-Year Honors.

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5. Herodotus (Books V.–IX.). — Xenophon (Selections from the Minor Works). *Mon., Wed., Fri., at 11.* Mr. PARKER.

Course 5 is intended for those who wish to acquire facility in reading. The course may be taken in two successive years.

6. Aeschines (Against Ctesiphon). — Demosthenes (On the Crown, with parts of the False Legation).—Aeschylus (Seven against Thebes). — Sophocles (Antigone). — Aristophanes (Frogs). *Tu., Th., Sat., at 10.* Professors GOODWIN and WRIGHT.

7. Greek Composition (Third Course).—Written composition in the style of Plato and of Demosthenes, with studies of classical models. — Translation of specimens of standard English (philosophical and rhetorical). *Half-course. Tu., at 11.* Professor WRIGHT.

Course 7 is open to those only who have already taken Course 3. It may be taken in two successive years, counting as a half-course in each year. It may also be taken once a fortnight through two years, counting as a half-course on the record of the second year.

8. Plato (Republic). — Aristotle (Ethics, Books I.–IV. and X.). *Tu., Th., Sat., at 9.* Professor GOODWIN.

In Course 8 attention will be directed mainly to the subject-matter of the authors read. This course is important for candidates for Final Honors in Classics. It may also be counted for Honors in Philosophy.

9. Aeschylus (Agamemnon and Eumenides). — Pindar (Selections). *Half-course. Tu., Th., Sat., at 10 (second half-year).* Professor GOODWIN.

[10. The Life of the Ancient Athenians, described and illustrated from the Monuments. *Mon., Wed., Fri., at 12.* Professor J. W. WHITE.]

Omitted in 1887–88.

12. Three Centuries of Greek History (600–300 B.C.). — Studies in Institutions and in Biography. — Lectures, with collateral reading and theses. *Mon., Wed., Fri., at 12.* Professor WRIGHT.

*11. Introduction to the critical study of Homer, with interpretation of a portion of the Iliad. *Wed., Fri., at 10.* Professor ALLEN.

[*13. Aristotle (Politics). *Half-course. Wed., 2–4 (first half-year).* Professor GOODWIN.]

Omitted in 1887–88.

*14. Thucydides (Selections from the Speeches and the more difficult parts of the Narrative). *Half-course. Wed., 2–4 (second half-year).* Professor GOODWIN.

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*15. The Political and Legal Antiquities of Athens, illustrated by the Legal Orations of Demosthenes and other Attic Orators. *Tu.*, *Th.*, *at 12*. Professor GOODWIN.

Attention is also called to Course 6 in Fine Arts.

Latin.

A. Cicero (Selected Orations). — Virgil (Aeneid, Books VIII., IX.). — Sallust (Jugurtha). — Reading at sight. *Mon.*, *Wed.*, *Fri.*, *at 11*, Dr. RICHARDSON.

Course *A* is open to Freshmen who have passed only on the Prescribed or Elementary Latin in the examination for admission. It cannot be counted for Honors.

B. Livy (Books XXXVII.-XXXVIII.). — Cicero (De Amicitia). — Terence (Andria; Adelphoe). — Reading at sight. *Tu.*, *Th.*, *Sat.*, *at 10*. Asst. Professor PREBLE.

C. Livy (Books VII., VIII.). — Cicero (De Senectute). — Terence (Heautontimorumenos; Phormio). — Reading at sight. *Tu.*, *Th.*, *Sat.*, *at 11*. Professor GREENOUGH and Dr. RICHARDSON.

D. (*Advanced Course for Freshmen.*) Livy (Books XXI., XXII.). — Cicero (De Senectute; De Amicitia). — Terence (Andria). — Plautus (Menaechmi). — Reading at sight. *Tu.*, *Th.*, *Sat.*, *at 10*. Professor ALLEN.

Courses *B* and *C* are open to Freshmen who have passed on the Elective or Advanced Latin for admission, and to Sophomores who have passed on Course *A*. The class for Course *D* is selected at the beginning of the year from those who elect *B* or *C*, chiefly on the basis of the admission examinations in the translation of Latin at sight; but students in those courses who show marked proficiency in reading Latin may be promoted to Course *D* during the year. Courses *B*, *C*, and *D* cannot be counted for Final Honors, but any one of them may be counted for Second-Year Honors.

E. Latin Composition. *Half-course. Wed., and alternate Fri., at 2.* Dr. RICHARDSON.

Course *E* may be counted for Second-Year, but not for Final, Honors.

1. Pliny (Selected Letters). — Tacitus (Histories). — Horace (Odes and Epodes). — Reading at sight. *Mon.*, *Wed.*, *Fri.*, *at 10*. Professor LANE.

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2. *First half-year:* Cicero (Republic; Philippics). — Ovid (Elegiac selections). — Reading at sight. — *Second half-year:* Livy (Book XXVII.) — Cicero (Tusculan Disputations). — Catullus (Marriage of Peleus). — Reading at sight. *Tu., Th., Sat., at 9.* Dr. RICHARDSON.

Courses 1 and 2 are adapted for students who have passed in Course *B*, *C*, or *D*. Neither of them is open to any student who has already taken the other, or who has taken any of the following courses.

Either Course 1 or Course 2 may, with the consent of the Instructor, be taken during either half-year as a half-course.

3. Latin Composition (Second Course). *Half-course. Th., at 2.* Mr. PARKER.

Course 3 is intended especially for candidates for Second-Year Honors. The Final Examination in this course is identical with the Special Examination in Latin Composition for Second-Year Honors.

4. Horace (Satires and Epistles). *Half-course. Tu., Th., Sat., at 9 (second half-year).* Professor GREENOUGH.

6. Tacitus (Annals, Books I.–VI.). — Juvenal. — Martial (Selected Epigrams). — Reading at sight. — Capes's Early Roman Empire. *Mon., Wed., Fri., at 10.* Mr. PARKER.

Courses 4 and 6 are adapted for students who have already taken Course 1 or 2.

7. Practice in Latin expression and style. — Study of selections from classical prose as models. — Translation into Latin prose. — Verse composition. *Th., Sat., at 11.* Asst. Professor PREBLE.

Course 7 is open to students who have passed in Course 3 or who otherwise satisfy the Instructor that they are properly qualified. It may be taken during the first half-year as a half-course.

8. Plautus (five plays). — Cicero (Brutus). — Catullus (Selections). — Lucretius (Books I.–III., with selections from IV., V., and VI.). *Mon., Wed., Fri., at 11.* Professor LANE.

Course 8 is adapted for students who have taken Course 6, and is important for candidates for Final Honors in Classics.

13. History of Latin Literature. — Lectures, with direction of the students' private reading. *Wed., Fri., and (at the pleasure of the Instructor), Mon., at 9.* Mr. PARKER.

*14. Studies in Latin Literature. — Tibullus and Propertius. *Half-course. Fri., at 2.* Asst. Professor PREBLE.

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[16. Philosophy among the Romans. — Selections from Cicero and Lucretius. — Investigations of special topics. — Lectures and theses. *Wed., Fri., at 10.*]

Omitted in 1887-88.

*10. The Private Life of the Romans, chiefly as illustrated by Works of Art. *Twice a week.* Professor GREENOUGH.

*12. Grammar. — Quintilian (Book I.). — Gellius (Selections). — Latin Inscriptions (Allen's Early Latin Remnants). — Discussions of points of grammar, pronunciation, &c. *Half-course. Tu., at 3.* Professor LANE.

Greek and Latin.

*1. Greek and Latin Comparative Philology. — Curtius's Etymology. — Papillon's Greek and Latin Inflexions. *Mon., Wed., Fri., at 2.* Professor GREENOUGH.

*2. Practice in Text-Criticism and Interpretation of Greek and Latin authors. — *First half-year:* Callimachus (Hymns). — *Second half-year:* Terence (Adelphoe). *Mon., Th., from 3–4½.* Professor ALLEN.

Course 2 is designed to afford training in philological criticism and research, and is open only to students of considerable maturity. The exercises are conducted in Latin. Students admitted to this course should consult the instructor before the summer vacation respecting the books to be procured.

English.

A. Rhetoric and English Composition. — A. S. Hill's Rhetoric. — Written Exercises and Oral Discussions. — Lectures on English Literature. *Tu., Sat., at 9, and a third hour to be appointed by the Instructors.* Professor A. S. HILL, Asst. Professor BRIGGS, and Mr. CUMMINGS.

Course *A* is prescribed for Freshmen.

B. Twelve Themes. — Lectures and discussions of themes. *Tu., at 2 (attendance voluntary).* Asst. Professor BRIGGS and Messrs. CLYMER, WENDELL, and NUTTER.

Course *B* is prescribed for Sophomores.

C. Forensics. — Ten lectures on Argumentative Composition. — A forensic, a thesis (in forensic form), and an examination to test the student's power of writing argumentative essays off-hand on subjects previously studied. Asst. Professor ROYCE and Messrs. CUMMINGS and CONANT.

Course *C* is prescribed for Juniors.

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D. Forensics (Second Course, conducted on the same plan as Course *C*). Asst. Professor ROYCE and Messrs. CUMMINGS and CONANT.

Course *D* is prescribed for Seniors.

12. English Composition. *Mon., Wed., Fri., at 11.* Mr. WENDELL.

Course 12 is open to those students only who have passed in Courses *A* and *B*. It is not open to students who take or have taken Course 5.

*5. English Composition (Advanced Course). *Mon., Wed., Fri., at 11.* Professor A. S. HILL.

With the consent of the Instructor, Course 5 may be taken in two successive years.

*6. Oral Discussion of Topics in Political Economy and History. *Half-course. Wed., from 3–5.* Asst. Professor TAUSSIG, Dr. HART, and Mr. HAYES.

Course 6 is open to Seniors only.

8. English. — Sweet's Anglo-Saxon Reader. — Anglo-Saxon Poetry. *Mon., Wed., Fri., at 11.* Professor CHILD.

[4. Early English. — Mätzner's Altenglische Sprachproben. *Mon., Wed., Fri., at 11.* Professor CHILD.]

Omitted in 1887–88.

Courses 3 and 4 are given in alternate years. Course 4 may be taken by those only who have taken Course 3.

[1. English Literature. — Chaucer. *Mon., Wed., Fri., at 9.* Professor CHILD.]

Omitted in 1887–88.

11. English Literature. — Bacon. — Milton. *Mon., Wed., Fri., at 9.* Professor CHILD.

[13. English Literature. — Spenser. — The English Bible. *Mon., Wed., Fri., at 9.* Professor CHILD.]

Omitted in 1887–88.

Courses 1, 11, and 13 are given in successive years.

2. English Literature. — Shakspere. *Mon., Wed., Fri., at 10.* Professor CHILD.

Course 2 may be taken in two successive years.

14. English Literature. — The Drama (exclusive of Shakspere) from the Miracle Plays to the Restoration. *Half-course. Wed., at 12.* Mr. WENDELL.

15. English Literature (exclusive of Milton) from Shakspere to Dryden. *Half-course. Tu., Th., at 12 (second half-year).* Asst. Professor BRIGGS.

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[7. English Literature of the Eighteenth Century. *Half-course. Tu., Th., at 3 (first half-year).* Professor A. S. HILL.]

Omitted in 1887–88.

8. English Literature. — Poets of the Nineteenth Century. *Half-course. Tu., Th., at 3 (first half-year).* Professor A. S. HILL.

[9. English Literature. — Prose Writers of the Nineteenth Century. *Half-course. Tu., Th., at 3 (first half-year).* Professor A. S. HILL.]

Omitted in 1887–88.

Courses 7, 8, and 9 are given in successive years.

*10. English Literature. — Study of Special Topics. — In 1887–88 competent students may make special studies of selected topics (authors, epochs, lines of development), under the guidance of the Instructors.

Course 10 is open to Graduates who have done good work in English (including Composition), to candidates for Honors in English, and to Seniors of high rank who are likely to obtain Honorable Mention in English or in English Composition. It may be taken either as a full course or as a half-course, as may be determined by the Instructor concerned.

German.

A Freshman who wishes to elect a course in German must consult the Instructor as to the course which it is proper for him to pursue.

A. Elementary Course. — Sheldon's Grammar. — Translation from German into English, and elementary exercises in translating into German. *Three times a week.* Asst. Professor BARTLETT, Mr. GRANDGENT, and Mr. HOCHDÖRFER.

Course *A* is equivalent to the Elementary German of the admission requirements, and is prescribed for Freshmen who did not present German in their examination for admission.

1. Modern Novel, Drama, and Lyrics. Composition. *Tu., Th., Sat., at 11 and 12.* Asst. Professor FRANCKE.

2. German Prose. — Subjects in History and Literature. — Translation and Reading at sight. — Practice in Writing German. *Mon., Wed., Fri., at 2.* Asst. Professor BARTLETT.

Courses 1 and 2 are intended for Sophomores, and for Freshmen who passed the examination in Elementary or Prescribed German for admission. They cannot be taken together, and neither of them can be taken (except as an *extra*) by any student who presented the Advanced German for admission, or who has had a College elective course in German.

Course 2 is intended for those who wish to read a large amount of German as a preparation for the use of the language in their college studies.

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3. German Literature of the Eighteenth Century (First Course). — Lessing and Schiller. — Composition. *Mon., Wed., Fri., at 10.* Asst. Professor BARTLETT.

*4. History of German Literature and Art from the Reformation to the middle of the Nineteenth Century. — Lectures and theses. *Tu., Th., at 10.* Asst. Professor FRANCKE.

Course 4 may be taken in addition to 3 or 5.

5. German Literature of the Eighteenth Century (Second Course). — Goethe. *Mon., Wed., Fri., at 11.* Asst. Professor FRANCKE.

A student who has not taken Course 3 cannot elect Course 5 without the consent of the Instructor.

[*6. History of German Literature and Art in the Middle Ages. — Lectures and theses. *Tu., Th., at 10.* Asst. Professor FRANCKE.]

Omitted in 1887–88.

Course 6 may be taken in addition to 5 or 7.

7. Das Nibelungenlied. — Die Minnesinger. — Translation from Mediaeval German into Modern German. *Half-course. Wed., and (at the pleasure of the Instructor) Fri., at 9.* Asst. Professor SHELDON.

Course 7 will be omitted in 1888–89.

*9. Practice in writing and speaking German. (Elementary Course.) — German Prose, Lyrics, and Ballads. *Half-course. Tu., Th., at 10.* Asst. Professor BARTLETT.

Course 9 is intended for Freshmen who have passed the admission examination in Elementary or Prescribed German, and for Sophomores. It may be taken in addition to Course 1 or 2.

[*10. Practice in writing German (Second Course). — Subjects in History and Literature. *Half-course. Mon., Wed., at 12.*]

Omitted in 1887–88.

Course 10 is intended for students who have already had one elective course in German. It may be taken in addition to Course 3.

Courses 3, 4, 5, 6, 7, 9, and 10 are conducted in German.

Students intending to take any of the German courses are advised to consult the Instructor in advance.

Here for convenience is placed

[8. Gothic. *Half-course. Fri., and (at the pleasure of the Instructor) Mon., at 9.* Asst. Professor SHELDON.]

Omitted in 1887–88. To be given in 1888–89.

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French.

A student who wishes to elect any course in French (except Course 8) must consult the Instructor in advance. Freshmen (of 1887–88) may choose without consulting the Instructor, but they must have their choice approved by him in the first week of the academic year. Before making their choice students should read the full description of the courses they wish to elect in the descriptive pamphlet of the French courses.

A. Elementary Course. — Chardenal's First French Course. — Bôcher's Reader. — French Prose. *Mon., Wed., Fri., at 2 and 3.* Mr. SANDERSON.

Course *A* is equivalent to the Elementary French of the admission requirements, and is prescribed for Freshmen who did not present French in their examination for admission.

1. George Sand. — Dumas. — About. — Sandeau. — La Fontaine. — Grammar, reading, conversation, and composition. *Mon., Wed., Fri., at 9.* Asst. Professor COHN and Mr. SANDERSON.

Course 1 is intended for students who have completed Course *A* or its equivalent. It is not open (except as an *extra*) to students who presented Advanced French for admission.

2. La Fontaine. — Corneille. — Racine. — Molière. — Beaumarchais. — Sainte-Beuve. — Alfred de Musset. — Balzac. — Grammaire historique. — Composition. *Mon., Wed., Fri., at 10.* Professor BÔCHER.

3. Théâtre classique. — Bossuet. — Voltaire. — Rousseau. — Montesquieu. — Victor Hugo. — Composition and themes. *Mon., Wed., Fri., at 9.* Professor BÔCHER.

4. Littérature française au XVIII^e^ siècle. — Themes. — Lectures. *Tu., Th., Sat., at 9.* Asst. Professor COHN.

Course 4 may be taken in three successive years, so as to include the French literature of the 17th, 18th, and 19th centuries.

The Instructors in Courses 3 and 4 will alternate with each other from year to year in giving these courses, the hours of recitation being also interchanged.

Courses 1, 2, 3, and 4 are graded courses, of which no two can be taken together.

5. Montaigne. — Rabelais. — Ronsard. — Villon. — Commines. — Froissart. — La Renaissance en France. — Littérature française au XV^e^ et au XVI^e^ siècles. *Tu., Sat., at 9.* Professor BÔCHER.

Course 5 is given in alternate years.

Either the first or the second hour of this course, throughout the year, may, with the consent of the Instructor, be taken as a half-course.

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[6. La Chanson de Roland. — Les Romans de la Table Ronde. — Le Roman de Renart. — Villehardouin. — Joinville. — Le Moyen-âge en France. — Littérature française jusqu'à l'avènement des Valois. *Mon., Wed., at 10.* Asst. Professor COHN.]

Omitted in 1887–88.

Course 6 is given in alternate years. Either hour may be taken as a half-course throughout the year, as in French 5.

Courses 5 and 6 are designed for students able to take 3 or 4 and may be taken in addition to these courses.

8. Translation and Reading at sight. — Historical Prose. — Modern novels and plays. *Tu., at 10.* Professor BÔCHER.

Course 8 is given as a half-course (twice a week) in alternate years. It can be taken only as an *extra* in 1887–88.

In Course 8 a large amount will be read. This course may be taken without consulting the Instructor and in addition to other French courses, but it is not recommended to students able to take Course 3 or 4. Students who have not studied French beyond the elementary requirement for admission are advised not to take Course 8 unless they take it in addition to Course 1 or 9.

9. Practice in writing and speaking French (Elementary Course). *Half-course. Tu., Th., at 3.* Mr. GRANDGENT.

Course 9 may be taken in addition to 1 or 8.

10. Practice in writing and speaking French (Intermediate Course). *Half-course. Tu., Th., at 2 and 3.* Mr. SANDERSON.

Course 10 may be taken in addition to 2 or 8.

11. Practice in writing and speaking French (Advanced Course). — Oral discussions. *Half-course. Tu., Th., at 3.* Asst. Professor COHN.

Course 11 may be taken in addition to 3, 4, 5, or 6. It may be taken in two successive years.

Courses 9, 10, and 11 are graded courses.

All of the above courses, except Course 8, are conducted in French.

Italian.

1. Italian Prose Selections. — Manzoni (I Promessi Sposi). — Grammar and prose composition. *Tu., Th., Sat., at 10.* Asst. Professor SHELDON.

2. Modern Drama and Essays. — Torquato Tasso. — Ariosto. — Reading at sight. — Syntax and prose composition. *Tu., Th., Sat., at 12.* Asst. Professor SHELDON.

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*3. Selections from Boccaccio, Petrarca, Dante. — Nannucci's Manuale della Letteratura del Primo Secolo. — Outline of the History of Italian Literature. — Composition. *Mon., Wed., Fri., at 12.* Professor NASH.

Course 1 is open to those only who have not before taken a course in Italian. Courses 1 and 2 cannot be taken together. Course 3 is open to those only who have taken Courses 1 and 2 with marked success, or who satisfy the Instructor of their fitness by passing a special examination.

Attention is also called to Course 8 in Fine Arts.

Spanish.

1. Del Mar's Grammar. — Gil Blas. — El Eco de Madrid. — Prose composition. *Mon., Wed., Fri., at 10.* Professor NASH.

2. Modern Literature (Drama, Novels, etc.). — Reading at sight. — Syntax and prose composition. *Mon., Wed., Fri., at 11.* Professor NASH.

*3. Selections from Calderon, Lope de Vega, and Cervantes. — Early Spanish (the Poem of the Cid). — Outline of the History of Spanish Literature. — Composition. *Mon., Wed., Fri., at 2.* Professor NASH.

Course 1 is open to those only who have not before taken a course in Spanish. Courses 1 and 2 cannot be taken together. Course 3 is open to those only who have taken Courses 1 and 2 with marked success, or who satisfy the Instructor of their fitness by passing a special examination.

Students are not permitted to elect Italian 1 and Spanish 1 in the same year.

Romance Philology.

1. Comparative Phonology and Inflexions of the chief Romance languages. *Half-course. Wed., at 4; Sat.,* at *11 (first half-year).* Asst. Professor SHELDON.

2. Phonetics, with special reference to the explanation of sound-changes in the Romance languages. *Half-course. Th., Sat., at 11 (second half-year),* Asst. Professor SHELDON.

3. Old French. — Phonology and Inflexions, with reading of selected texts. *Th., 2–4.* Asst. Professor SHELDON.

Course 3 will be omitted in 1888–89.

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4. Provençal. — Phonology and Inflexions, with reading of selected texts. *Half-course. Mon., Fri., at 2 (second half-year).* Mr. GRANDGENT.

[5. Historical Italian Grammar. — Phonology and Inflexions, with reading of Old Italian texts. *Half-course. Twice a week for half the year.* Mr. GRANDGENT.]

Omitted in 1887–88. To be given in 1888–89.

[6. Old French Dialects, with special reference to Anglo-Norman. *Twice a week.* Asst. Professor SHELDON.]

Omitted in 1887–88. To be given in 1888–89.

Attention is also called to Course G in French.

Assistance will be given to properly qualified graduate students who wish to study any other Romance language, or to make special investigations in any branch of Romance Philology.

The Romance Philology Conferences will be held twice a month. The subject for the first part of 1887–88 will be exercises in French Etymology.

Philosophy.

INTRODUCTORY COURSES.

1. History of Philosophy. — A survey in outline of ancient and modern speculative thought. — Bax's Handbook. — Lectures *Tu., Th., Sat., at 12.* Professor PALMER.

2. Logic and Psychology. — Jevons's Elementary Lessons in Logic. — Bain's Emotion and Will. *Mon., Wed., Fri., at 12.* Professor JAMES.

3. Logic and Psychology. — Lectures on Logic. — Ladd's Physiological Psychology. *Mon., Wed., Fri., at 3.* Asst. Professor ROYCE.

Courses 1, 2, and 3 are recommended as a preparation for students intending to take any of the advanced courses in a subsequent year. Only one of the three can be counted for Honors.

Courses 2 and 3 are parallel courses and cannot both be taken by the same student. A student may take Courses 1 and 2 or 1 and 3; but in that case one of the two will count for him only as a half-course.

ADVANCED COURSES.

The following courses are intended for those who have already taken an introductory course in Philosophy.

4. Ethics. — Earlier English Ethics. — Mill's Utilitarianism. — Kant's Theory of Ethics. — Lectures and theses. *Tu., Th., Sat., at 11.* Professor PALMER.

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5. English Philosophy. — Berkeley, Hume, and Reid. — Lectures and theses. *Tu., Th., Sat., at 12.* Professor JAMES.

6. Earlier French Philosophy, from Descartes to Leibnitz, and German Philosophy from Kant to Hegel. — Lectures. *Mon., Wed., Fri., at 11.* Professor BOWEN.

Course 6 will beomitted in 1888–89

[7. German Philosophy of the Present Day. — Schopenhauer's Die Welt als Wille und Vorstellung. — Hartmann's Philosophie des Unbewussten. — Lotze's Metaphysik. *Mon., Wed., Fri., at 11.* Professor BOWEN.]

Omitted in 1887–88.

13. Monism and the Theory of Evolution in their relation to the Philosophy of Nature. — Spinoza's Ethics. — Spencer's First Principles. — Lectures and theses. *Mon., Wed., Fri., at 12.* Asst. Professor ROYCE.

11. The Ethics of Social Reform. — The questions of Charity, Divorce, the Indians, Labor, Prisons, Temperance, etc., as problems of practical Ethics. — Lectures, essays, and practical observations. *Tu., Th., at 10,* Professor F. G. PEABODY.

[*10. The Philosophy of Religion. — Lectures and essays. *Half-course. Wed., at 9.* Professor F. G. PEABODY.]

Omitted in 1887–88.

COURSES FOR SPECIAL RESEARCH.

The following courses are intended for Specialists. Undergraduates will not regularly be admitted to them.

*9. Questions in Psychology (with laboratory work). Professor JAMES.

*12. Special advanced instruction in Metaphysics. — Kant's Critique of Pure Reason. — Theses. — Library research. — Lectures. Asst. Professor ROYCE.

*8. Questions in Ethics. Professor PALMER.

Attention is also called to Course 8 in Greek (Plato and Aristotle) and Course 16 in Latin (Philosophy among the Romans).

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Political Economy.

1. *First half-year:* Mill's Principles of Political Economy. — Dunbar's Chapters on Banking.

Second half-year: Division A (Theoretical): Mill's Principles of Political Economy. — Cairnes's Leading Principles of Political Economy. *Division B* (Descriptive): Topics in Money, Finance, Labor and Capital, Coöperation, Socialism and Taxation. *Mon., Wed., Fri., at 9.* Asst. Professors LAUGHLIN and TAUSSIG.

All students in Course 1 will have the same work during the first half-year, but will be required in January to make their election between divisions *A* and *B* for the second half-year. The work in division *A* is required for admission to Courses 2 and 3.

*2. History of Economic Theory. — Examination of selections from Leading Writers. — Lectures. *Mon., Wed., Fri., at 2.* Asst. Professor TAUSSIG.

*3. Investigation and Discussion of Practical Economic Questions. — Short theses. *Tu., Th., at 3, and a third hour to be appointed by the Instructor.* Asst. Professor LAUGHLIN.

4. Economic History of Europe and America since the Seven Years' War. — Lectures and written work. *Mon., Wed., Fri., at 11.* Professor DUNBAR.

Course 4 requires no previous study of Political Economy.

[*5. Economic Effects of Land Tenures in England, Ireland, France, and Germany. — Lectures and theses. *Half-course. Once a week.* Asst. Professor LAUGHLIN.]

Omitted in 1887–88.

*6. History of Tariff Legislation in the United States. *Half-course. Tu., Th., at 2, and a third hour at the pleasure of the Instructor (second half-year).* Asst. Professor TAUSSIG.

*7. Public Finance and Banking. — Leroy-Beaulieu's Science des Finances. *Mon., Wed., Fri., at 3.* Professor DUNBAR.

*8. History of Financial Legislation in the United States. *Half-course. Tu., Th., at 2, and a third hour at the pleasure of the Instructor (first half-year).* Professor DUNBAR.

It is recommended that Courses 6 and 8 be taken together.

*9. Management and Ownership of Railways. *Half-course. Tu. Th., at 10, and a third hour at the pleasure of the Instructor (first half-year).* Asst. Professor LAUGHLIN.

As a preparation for Courses 2, 3, 5, 6, 7, 8, and 9 it is necessary to have passed satisfactorily in Course 1.

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*10. Special Advanced Study and Research. — In 1887–88, competent students may pursue special investigations of selected topics under the guidance of any one of the Instructors.

Course 10 is open only o graduates, to candidates for Honors in Political Science, and to Seniors of high rank who are likely to obtain Honorable Mention in Political Economy. It may be taken either as a full course or as a half-course, as may be determined by the Instructor concerned.

History.

1. Mediæval and Modern European History (Introductory to Courses 9, 10, 11, and 12). *Mon., Wed., Fri., at 10.* Professor MACVANE and Dr. CHANNING.

For Juniors and Seniors Course 1 will be counted only as a half-course.

2. Constitutional Government (Elementary course, introductory to Courses 11, 12, 13, and 17). *Half-course. Tu., Th., Sat., at 11 (first half-year).* Professor MACVANE.

Course 2 can be taken by Seniors only as an *extra*.
Courses 1 and 2 are designed particularly for Sophomores and Freshmen, and are not counted for Honors. They cannot be taken after those courses to which they are intended to be introductory.

[3. History of the Development of Political and Legal Institutions in Greece and Rome to the Fall of the Roman Republic]

Omitted in 1887–88.
Attention is also called to Course 12 in Greek.

[4. Political and Legal Institutions of the Roman Empire. — Development of the Frankish Constitution to the death of Charlemagne. *Wed., Fri., and (at the pleasure of the Instructor) Mon., at 12.*]

Omitted in 1887–88.

Students who intend to take Course 8 will find Course 4 a useful introduction to it.

5. The Conflict of Christianity with Paganism. — Origin and development of the Roman Primacy to its alliance with the Holy Roman Empire, A.D. 800. *Tu., Th., at 9.* Professor EMERTON.

Course 5 will probably be omitted in 1888–89.

6. The Mediaeval Church, with especial reference to its effect upon public life and upon intellectual and social progress. *Tu., Th., at 3.* Professor EMERTON.

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8. History of Government and Administration in France from the Frankish period to modern times. *Wed., Fri., and (at the pleasure of the Instructor) Mon., at 10.* Asst. Professor YOUNG.

Course 4 will be found a desirable introduction to Course 8.

9. Constitutional and Legal History of England to the Sixteenth Century. *Mon., Wed., Fri., at 11.* Asst. Professor YOUNG.

[10. The Era of the Reformation in Europe, from the rise of Italian Humanism to the close of the Council of Trent. *Wed., Fri., at 9.* Professor EMERTON.]

Omitted in 1887–88; will probably be given in 1888–89.

[11. European History during the Seventeenth Century and the first half of the Eighteenth. *Mon., Wed., Fri., at 12.* Asst. Professor YOUNG.]

Omitted in 1887–88.

12. European History from the Middle of the Eighteenth Century. *Tu., Th., Sat., at 9.* Professor MACVANE and Dr. CHANNING.

18. American Colonial History (to 1783). *Tu., Th., Sat., at 11.* Dr. CHANNING.

13. Constitutional and Political History of the United States (1783–1861) *Tu., Th., Sat., at 12.* Dr. HART.

17. General History of the United States. *Half-course. Tu., Th., Sat., at 11 (second half-year).* Dr. HART.

Course 17 is intended for those who desire a briefer and more general course than 13. Course 2 is required as an introduction to it. No student can take both 17 and 13. Course 17 is not counted for Honors.

*14. Constitutional Government (Advanced Course). *Mon., Wed., Fri., at 9.* Professor MACVANE and Dr. HART.

Course 14 is open to students who have passed creditably in Course 12 and at least one of the courses numbered 8, 9, 11, and 13.

*15. Elements of Public International Law. — History of Treaties. *Tu., Th., and (at the pleasure of the Instructor) Sat., at 10.* Dr. SNOW.

Course 15 is intended for Juniors, Seniors, and Graduates.

*16. Studies in the Comparative History of Religions (particularly the Vedic Religion, the Hindu Philosophies, Buddhism, Mazdaism, and the Chinese Religions). *Half-course. Th., Sat., at 9.* Professor EVERETT.

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*20. Special Advanced Study and Research. — In addition to the foregoing courses opportunities will be afforded to competent students for the investigation of special topics, under the guidance of the instructors named below. Work done under this provision may be counted as a full course or as a half-course, as the Instructor may determine.

(*a*) Professor EMERTON: Topics in Mediaeval and Church History (in connection with Courses 5 and 6).

(*c*) Professor MACVANE: Topics in Constitutional Government.

(*d*) Dr. HART: Topics in American History. *Wed., Fri., at 10.*

(*e*) Dr. CHANNING: Topics in American History and in Modern Diplomatic History.

Undergraduates wishing to take any of the advanced courses in History are required to have passed satisfactorily in a suitable introductory course, or otherwise to satisfy the instructor of their fitness to proceed.

Knowledge of German will be of advantage in any of the courses in History; and ability to make use of French text-books will be presumed.

Roman Law.

1. History and Institutes of Roman Law. — Institutes of Gaius and Justinian, omitting the Law of Inheritance. *Mon., Wed., Fri., at 3.* Asst. Professor YOUNG.

[2. Advanced study of special topics. — Selections from the Digest. *Half-course.* Asst. Professor YOUNG.]

Omitted in 1887–88.

[3. The Law of Inheritance. — Institutes of Gaius and Justinian. — Selections from the Digest. *Half-course, second half-year.*]

Omitted in 1887–88.

The Fine Arts.

1. Principles of Delineation, Color, and Chiaroscuro. — Lectures, with collateral reading. — Practice in drawing and in the use of water-colors. — Perspective. *Mon., Wed., Fri., at 2.* Mr. MOORE.

2. Principles of Design in Painting, Sculpture, and Architecture. — Lectures, with collateral reading. — Practice in drawing and water-color. *Half-course. Mon., Fri., at 3.* Mr. MOORE.

As a preparation for Course 2 it is necessary to have passed satisfactorily in Course 1.

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[3. Ancient Art. *Tu., Th., Sat., at 11.* Professor NORTON.]
Omitted in 1887–88. To be given in 1888–89.

4. Roman and Mediaeval Art. *Tu., Th., Sat., at 11.* Professor NORTON.

*8. Literature and the Fine Arts in Italy during the Middle Ages and the Renaissance, with special study of Dante. *Tu., Th., Sat., at 9.* Professor NORTON.

In Course 8 a knowledge of Italian is required.

6. Greek Archaeology. — The progress of archaeological discovery in Greece, and of knowledge of Greek Art, from the Fifteenth Century to the present time. — Lectures, with collateral reading. *Tu., Th., Sat., at 12.* Dr. FOWLER.

Course 6 may be counted for Final Honors in Classics.

Music.

1. Harmony. *Tu., from 2–4; Th., at 2.* Professor PAINE.
Some proficiency in piano or organ playing is required of students who take Course 1.

2. Counterpoint. *Mon., Wed., Fri., at 3.* Professor PAINE.
Course 2 requires a knowledge of Harmony.

3. History of Music. *Mon., Wed., Fri., at 2.* Professor PAINE.
Ability to read music is required of students who take Course 3.

[*5. Canon and Fugue. *Mon., at 4; Th., at 3.* Professor PAINE.]
Omitted in 1887–88.

*6. Free Thematic Music. — Forms of Modern Instrumental Music. *Mon., at 4, Th., at 3.* Professor PAINE.

Courses 5 and 6 are given in alternate years.

Mathematics.

A. Logarithms. — Plane Trigonometry, with its applications to Surveying and Navigation. *Half-course. Mon., Wed., Fri., at 11 (first half-year).* Professor C. J. WHITE.

B. Analytic Geometry (elementary course). *Half-course. Mon., Wed., Fri., at 11 (second half-year).* Professor C. J. WHITE.

C. Analytic Geometry (extended course). *Mon., Wed., Fri., at 11* Professor J. M. PEIRCE.

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D. Algebra. *Half-course. Mon., Wed., Fri., at 11 and 3 (first half-year).* Mr. SAWIN.

G. Algebra (extended course). *Half-course. Tu., Th., Sat., at 10 (first half-year).* Mr. SAWIN.

E. Solid Geometry. *Half-course. Tu., Th., Sat., at 10 (second half-year).* Mr. SAWIN.

F. Elementary Mechanics. *Half-course. Mon., Wed., Fri., at 12 (second half-year).* Mr. SAWIN.

Courses *A*, *B*, *E*, and *F* correspond to the Advanced Mathematical Studies embraced, as optional studies, in the examination for admission to College.

Courses *B*, *C*, and *F* require a previous knowledge of Plane Trigonometry; but a student may take *A* and *B* or *A* and *F* in the same year.

Course *C* may be taken by a beginner in Analytic Geometry as a full course for the year, or only as a half-course for the first half-year (being then equivalent to Course *B*). It may be taken as an extra for the first half-year, or as a half-course for the second half-year, or in both ways, by a student who has passed in Analytic Geometry for admission or in Course *B*. A student who has taken Courses *A* and *E* or *A* and *F* (with or without *D* or *G*) in his Freshman year may afterwards take Course *C* as a full course.

Course *G* is intended for students who have passed with credit in Algebra at the examination for admission, and who wish to make rapid progress in their mathematical studies.

1. Practical Applications of Trigonometry. — Principles of Surveying. — Spherical Trigonometry. — Applications of Spherical Trigonometry to Astronomy and Navigation. *Wed., Fri., at 3.* Professor C. J. WHITE.

   Course 1 is open to Freshmen who have passed the examination in Plane Trigonometry.

2. Differential and Integral Calculus (First Course). *Mon., Wed., Fri., at 11.* Asst. Professor B. O. PEIRCE.

   Course 2 is open to those only who have taken Course *B* or Course *C*.

3. Modern Methods in Analytic Geometry; Determinants. *Mon., Wed., Fri., at 10.* Professor BYERLY.

   Course 3 is intended for students who have taken Course *C*; but those who have taken Course *B* may elect it, if deemed qualified by the Instructor.

4. The Elements of Mechanics. *Tu., Th., Sat., at 11.* Mr. SAWIN.

   Course 4 is intended for students who take or have taken Course 2. Candidates for Second-Year Honors may take Courses 2 and 3, or 2 and 4. Other courses may be accepted on special petition.

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5. Differential and Integral Calculus (Second Course). *Mon., Wed., Fri., at 11.* Professor BYERLY.

6. Quaternions and Theoretical Mechanics. *Mon., Wed., Fri., at 12.* Professor J. M. PEIRCE.

[12. Descriptive and Spherical Astronomy. *Tu., Th., Sat., at 11.* Professor C. J. WHITE.]

Omitted in 1887–88.

Course 12 is intended for students who take or have taken Courses *A*, *B*, and 2.

7. Higher Plane Curves. *Half-course. Th., at 4.* Professor J. M. PEIRCE.

Course 7 may profitably be taken as an *extra* by students who cannot afford time for the whole work of the course.

[8. Analytic Mechanics. *Mon., Wed., Fri., at 10.* Professor BYERLY.]

Omitted in 1887–88.

[9. Quaternions and Theoretical Mechanics (Second Course). *Mon., Wed., Fri., at 10.* Professor J. M. PEIRCE.]

Omitted in 1887–88.

10. Trigonometric Series; Introduction to Spherical Harmonics; the Theory of the Potential. *Three times a week.* Professor BYERLY and Asst. Professor B. O. PEIRCE.

11. Hydromechanics. *Tu., Th., at 12.* Asst. Professor B. O. PEIRCE.

[13. The Theory of Functions. *Mon., Wed., at 11, Fri., at 4.* Dr. COLE.]

Omitted in 1887–88.

20. Special Advanced Study and Research. — The work of the following courses will consist in investigations and reading, to be carried on by the students in the courses, under the guidance of the instructors. Students will be expected to present their results from week to week in the form of lectures and theses.

(*a*) Multiple Algebras. Professor J. M. PEIRCE.

(*b*) Spherical Harmonics; Bessel's and Lamé Functions. Professor BYERLY.

(*c*) The Higher Theory of Equations. Dr. COLE.

Physics.

A. Physics (Lectures). *Th., at 12 (second half-year).* Professor LOVERING.

Course *A* is prescribed for Freshmen.

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B. Experimental Physics. *Half-course. Wed., at 10 (lecture), with one laboratory exercise a week.* Dr. HALL.

Course *B* is substantially equivalent to the second alternative in the Elementary Physical Science of the requirements for admission. It is open to students who have not passed on this alternative nor taken in College any course in experimental Physics.

C. Experimental Physics. — Measurements in Mechanics, Sound, Heat, Light, Electricity, and Magnetism. — Lectures and laboratory work. *Mon., Fri., at 10.* Dr. WHITING.

Course *C* is substantially equivalent to the Advanced Physics of the requirements for admission. It is intended for those who have had some previous practice in physical experimentation — especially for Freshmen who presented the second alternative in Elementary Physical Science for admission, and for other students who take or have taken Course *B*. The examinations in Course *C* will not conflict with those in Course *B*.

1. Principles and Methods of Physical Measurement, with laboratory work. — Mechanics, Heat, and Light. *Half-course. Th., at 10.* Dr. HALL.

2. Principles and Methods of Physical Measurement, with laboratory work. — Sound, Electricity, and Magnetism. *Half-course. Tu., at 10.* Dr. WHITING.

Courses 1 and 2 are open to students who have taken Course *C* (or Course 2 as it was given before 1887–88), or who have passed on the Advanced Physics of the requirements for admission; but students who intend to take either course are advised to take Mathematics *A* and *B* before or with it. Those who intend to take more advanced laboratory courses in Physics are advised to take Courses 1 and 2 together. (The examinations will not conflict.)

3. The Conservation of Energy. — *First half-year:* Experimental lectures. *Second half-year:* The mathematical treatment of the subject. *Tu., Th., Sat., at 11.* Professor TROWBRIDGE.

Omitted in 1887–88.

Course 3 may be taken during either half-year as a half-course. In the second half a knowledge of the Calculus is required.

4. Undulatory Theory of Light. — Electricity and Magnetism. *Mon., Wed., Fri., at 12.* Professor LOVERING.

Omitted in 1887–88.

5. The Spectroscope and its Applications. — Thermodynamics and Thermics, including the applications of Heat. *Mon., Wed., Fri., at 10.*

Omitted in 1887–88.

Courses 4 and 5 can be pursued only by students who are able to solve readily problems in Algebra, Trigonometry, and Analytic Geometry, and who have some knowledge of the Calculus.

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*6. Experimental Physics, with laboratory work, for advanced students. *Tu., Th., Sat., at 9.* Professor TROWBRIDGE.

*7. Mathematical Physics (Maxwell's Electricity and Magnetism). *Tu., Th., Fri., at 3.* Professor TROWBRIDGE.

9. Elementary Course on the Theory of Electrical Potential, with laboratory work. *Three times a week.* Asst. Professor B. O. PEIRCE.

Course 9 is open to those only who have already taken a full course in Experimental Physics and also Mathematics 2. Students taking this course are strongly urged to take with it Mathematics 5.

11. The Method of Least Squares. *Half-course. Once a week with a second hour at the pleasure of the Instructor.* Dr. HALL.

Omitted in 1887–88.

Course 11 is open to those only who have taken Mathematics 2.

[12. The Kinetic Theory of Gases. *Half-course. Once a week with a second hour at the pleasure of the Instructor.* Dr. HALL.]

Omitted in 1886–87.

Courses 11 and 12 are given in alternate years.

Course 12 is open to those who have taken Course 11 and Mathematics 5. Others must consult the Instructor in advance.

The Instructors will assist graduate students in their reading in subjects in Mathematical Physics, meeting them once a week for explanation and discussion. Other students may be admitted to these courses, at the discretion of the Instructors. The subjects chosen for 1887–88 are:

Thermodynamics and Molecular Physics.

Electrodynamics. Professor TROWBRIDGE.

Chemistry.

A. Elementary Chemistry (Lectures). *Th., at 12 (first half-year).* Professor COOKE.

Course *A* is prescribed for Freshmen.

B. Experimental Chemistry. *Half-course. Tu., at 12, and laboratory work Tu. or Th., 2–4.* Professor COOKE and Dr HUNTINGTON.

Course *B* supplements Course *A*. During the second half-year Professor COOKE will lecture each Tuesday noon, thus giving, in connection with Course *A*, a continuous course during the year. The laboratory work will offer experimental demonstrations of the principles illustrated in the lectures, and in the Tuesday exercises of the first half-year (conducted by Dr. HUNTINGTON) instructions for the experimental work will be given, or recitations held, as may be required. This course is designed for Freshmen and all those desiring an elementary knowledge of the principles of Chemistry.

Course *B* is not open to students who have passed on the Elective Chemistry in the examination for admission.

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C. Elementary Lithology. — Study of the mineral constituents of the ordinary rocks, and of their associations. *Half-course. Wed., Fri., at 9 (lectures), with frequent practical exercises.* Dr. HUNTINGTON.

Course *C* is designed especially for students of Geology, but is open to any student who has not already taken Course 2 or Course 4*a* in Geology, as it was given before 1887–88.

1. General Descriptive Chemistry, including its applications in the arts, and embracing the scheme of the chemical elements. *Mon., Fri., at 12.* Lectures and laboratory work. Professor JACKSON.

Course 1 should be preceded by Course *B*, but is open to Freshmen who have passed on the Elective Chemistry for admission or who satisfy the Instructor that they are fitted to pursue the Course.

2. Determinative Mineralogy. — Lectures in the Mineral Cabinet and practical exercises. *Mon., Wed., Fri., at 10.* Dr. HUNTINGTON.

Course 2 is open to Freshmen.

3. Qualitative Analysis (chiefly laboratory work). *Mon., Wed., Fri., at 12.* Professor H. B. HILL and Mr. L. L. JACKSON.

Course 3 is open only to students who have taken Course 1.

4. Quantitative Analysis (chiefly laboratory work). *Mon., Wed., Fri., at 3.* Professors COOKE and H. B. HILL.

Course 4 may be taken with Course 3, but otherwise is only open to students practised in qualitative analysis.

4*a*. Quantitative Analysis (Second Course). — Laboratory work. *Mon., Wed., Fri., at 3.* Professors COOKE and H. B. HILL.

5. The Carbon Compounds. — Lectures and laboratory work. *Mon., Wed., Fri., at 9.* Professor H. B. HILL.

Course 5 is open only to students who have taken Course 3.

*6. Advanced Problems in Inorganic Chemistry, including Molecular Weights and Volumes, Thermo-Chemistry, and Specific Refractive Power. *Mon., Wed., Fri., at 12.* Professor COOKE.

*7. Crystallography and the Physics of Crystals. — Lectures and Practical Exercises. *Mon., Wed., Fri., at 10.* Professor COOKE.

Course 7 is given in alternate years.

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*10. Special Advanced Study and Research. — To competent students who have acquired the requisite knowledge and practice the following are offered as subjects of research under the guidance of the instructors named. This instruction is open only to graduates and to undergraduates of special fitness. The work in any of the subjects will be equivalent to a full course.

(*a*) Determination of Atomic Weights. Professor COOKE.

(*b*) Aromatic Compounds. Professor JACKSON.

(*c*) Organic Chemistry. Professor H. B. HILL.

At the Laboratories of Boylston Hall the Professors will direct advanced students in Chemistry in any other special studies or investigations.

Natural History.

BIOLOGY.

2. Zoölogy. — Lectures and laboratory demonstrations. *Half-course. Tu., Th., and (at the pleasure of the Instructor) Sat. at 10 (first half-year).* Professor MARK.

The laboratory demonstrations of Course 2 will occupy each student three hours a week: 9–10 and 11–1, Tu., Th., or Sat., or 2–5, Tu. or Th.

3. Botany. *Half-course. Tu., Th., at 10, and laboratory practice (second half-year).* Professor GOODALE.

Courses 2 and 3 are intended for beginners and for those who wish to get a comprehensive view of these subjects. Both courses are open to Freshmen, and may be taken with advantage in the same year.

5. Biology. *Mon., Wed., Fri., at 2.* Professor FARLOW and Dr. AYERS.

The number of students in Course 5 is necessarily limited, and preference will therefore be given to those who intend to take Course 6 or 14, or to study Medicine.

6. Zoölogy (Second Course).—Lectures and laboratory work. *Tu., Th., Sat., at 9.* Dr. AYERS.

Course 6 is open to those only who have taken Course 5.

7. Botany (Second Course). *Tu., Th., at 2, and laboratory practice.* Professor GOODALE.

Course 7 is open to those only who have taken Course 3.

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*23. Cryptogamic Botany. — Lectures and laboratory work. *Half-course. Tu., Th., Sat., at 10 (second half-year).* Mr. THAXTER.

Course 23 is open to those only who have taken Courses 3 and 5.

*13. Microscopic Anatomy. — Lectures with laboratory work. *Half-course. Mon., Wed., Fri., at 2 (first half-year).* Professor MARK.

Course 13 is preparatory to Course 9. It is open to those only who have taken Course 5, and may be taken advantageously either with or after Course 6.

*14. Palaeontology. *Wed., Fri., and (at the pleasure of the Instructor) Mon., at 9, and laboratory work.* Professor SHALER.

After 1886–87 Course 14 will be open to those only who have taken Course 5.

*21. Comparative Osteology. *Half-course. Th., at 11, with laboratory work.* Dr. SLADE.

COURSES FOR SPECIAL RESEARCH.

The following courses are open only to graduates and to undergraduates of special fitness. The work in any of the subjects will be equivalent to a full course.

*9. Embryology. Professor MARK.

*10. General Entomology. Professor HAGEN.

Course 10 is open to those only who have taken Course 5, and have had some experience in collecting insects.

*11. Experimental Vegetable Physiology. — Systematic and Economic Botany. Professor GOODALE.

*12. Structure and Development of Cryptogams. Mr. THAXTER.

*17. Palaeontology. Professor SHALER.

Course 17 is open to those only who have already taken Courses 4, 5, 6, and 14.

GEOLOGY.

1. Physical Geography and Meteorology (Elementary Course). Lectures and laboratory work. *Mon., Wed., Fri., at 9.* Asst. Professor DAVIS.

*20. Physical Geography and Meteorology (Second Course). — Lectures. *Twice a week.* Asst. Professor DAVIS.

Course 20 is intended for students who have taken Course 1. The work of the course will include special investigation of selected topics by the students.

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4. Geology. — Lectures. — Dana's Manual of Geology. *Half-course. Wed., Fri., and (at the pleasure of the Instructor) Mon., at 12.* Professor SHALER.

Course 4 can be taken by Seniors only as an *extra.*

4*a*. Geology. — Laboratory exercises. *Half-course.* Mr. HARRIS.

Course 4*a* is open to those only who take or have taken Course 4. It is designed especially for students who intend to take Course 8 in a subsequent year, and as the number of students in the course is necessarily limited, preference will be given to those who intend to take Course 8.

Courses 1, 4, and 4*a* are intended for beginners and for those who wish to get a comprehensive view of these subjects. They are open to Freshmen.

*8. Second Course in Geology (with field work). *Mon., Wed., Fri., at 10.* Professor SHALER, Asst. Professor DAVIS, and Mr. WOLFF.

Course 8 is adapted for students who have already taken Courses 4 and 4*a*.

*15. Historical Geology (with laboratory work). *Twice a week.* Professor SHALER.

*16. Geological field work; for training in the principles of Geological Surveying, with work in the field and in the preparation of reports. Professor SHALER, Asst. Professor DAVIS, and Mr. WOLFF.

22. Petrography. Lectures and theses. — Laboratory work. *Three times a week.* Mr. WOLFF.

Course 22 is open to those only who have taken Course 4 and Chemistry 2. It may be taken, without the laboratory work, as a half-course.

[*18 Mineral Veins and Metalliferous Deposits: their mode of occurrence, and theories of their origin. *Half-course. Mon. at 11.* Professor WHITNEY.]

Omitted in 1887–88.

[*24. North America: its Physical Geography and Geology; the past and probable future development of its Material Resources. *Wed., Fri., at 11.* Professor WHITNEY.]

Professors SHALER and DAVIS, and Mr. WOLFF will oversee and direct the work, in the field or library, of advanced special students in Geology.

ADDITIONAL INSTRUCTION.

Elocution. — Instruction in Elocution will be given to voluntary classes by Mr. HAYES.

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EVENING READINGS, CONCERTS, PUBLIC LECTURES, &c.

Evening Readings, consisting mainly of selections from ancient and modern classics, open to all members of the University, and also to the public, are given from time to time during the winter and spring.

In the course of the year 1886–87, the following readings were given:

Assyrian: Selections relating to *The Sardanapalus of Fiction and the Sardanapalus of History; Cyrus according to contemporary Babylonian Sources, with references to Greek and Hebrew accounts; Babylonian Psalmody and its relations to the Hebrew Psalter; Pictures of Babylonian Private and Social Life in the Sixth century B.C., from contemporary documents;* illustrated lectures (four evenings), by Professor LYON.

Greek: *The Odyssey of Homer*, Books XIX. to XXIV. (six readings), by Professor PALMER.

Iphigenia in Taurianland of Euripides (two evenings), by Asst. Professor DYER.

The Clouds of Aristophanes (two evenings), by Professor ALLEN.

The Frogs of Aristophanes (two evenings), by Professor GOODWIN.

Latin: *The Heautontimorumenos of Terence* (one evening), by Mr. PREBLE.

French (translation): *Molière, Le Misanthrope* (two evenings), by Mr. SANDERSON.

French (reading, without translation): *Molière, Le Misanthrope* (two evenings), by Professor BÔCHER.

Corneille, Le Cid (two evenings), by Asst. Professor COHN.

Ohnet, Le Maître de Forges (one evening), by Mr. SANDERSON.

A series of six readings for the benefit of the Special Library of the French Department (open, without charge, to members of the University): —

Alfred de Musset, Carmosine; Molière, La Critique de l'École des Femmes; Th. de Banville, Gringoire; by Professor BÔCHER.

Selections from the *Chanson de Roland* (translated into modern French); *Bossuet, Oraison funèbre de Henriette d'Angleterre; Beaumarchais, Le Mariage de Figaro;* by Asst. Professor COHN.

German: *Heinrich von Kleist, Der zerbrochene Krug, Die Hermannsschlacht, Prinz Friedrich von Homburg; Grillparzer, Medea;* Selections from *Goethe's Faust* (five evenings), by Dr. FRANCKE.

Selections from the *Ballad-Poets, — Bürger, Goethe, Schiller, Uhland, Heine, Platen, etc.;* and *Schiller's Song of the Bell* (six evenings) by Mr. HOCHDÖRFER.

English: Selections from the *Canterbury Tales of Chaucer* (twelve evenings), by Professor CHILD.

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Four Orchestral Concerts, by the Boston Symphony Orchestra, in Sanders Theatre.

The seventh series of *Five Orchestral Concerts*, by the Boston Symphony Orchestra, will be given in Sanders Theatre, on Nov. 3, Dec. 8, Jan. 5, Feb. 2, and March 8. Tickets for the course, $3.00.

In addition to the courses of instruction described in the preceding pages, many public lectures are given each year under the auspices of the University. Last year were given: —

Five illustrated lectures on *Assyrian Archaeology*, by Professor A. L. FROTHINGHAM, of the College of New Jersey.

A lecture on *The Scientific Method of Research in Greek Archaeology*, by Dr. CHARLES WALDSTEIN, of the University of Cambridge, England.

Three illustrated lectures on *The various influences affecting the Development of Greek Art*, by Dr. WALDSTEIN.

Eleven illustrated lectures on *Roman Archaeology*, by Professor RODOLFO LANCIANI, of Rome, Italy.

Twelve lectures on *Comparative Philology* (for students in Classical courses), by Professor GREENOUGH.

A lecture on *The rise of European Universities*, by Rev. Professor MANDELL CREIGHTON, of Emmanuel College, Cambridge. England.

Four lectures on *Problems of Railroad Administration*, by Professor A. T. HADLEY, of Yale University.

Three lectures in German on *The Contemporary Drama*, *The Contemporary Novel*, and *Contemporary Lyrics and Romances* (for students desiring suggestions as to private reading in German), by Dr. FRANCKE.

A lecture on *The Choice of Studies in History*, by Professor EMERTON.

Four illustrated lectures on *The Architectural Monuments of Great Britain*, by Professor COOKE.

The Semitic Seminary: Papers on *Jewish Literature of the Nineteenth Century*, *Jewish Music*, *Modern Literary activity in Syria*, *Translations from the rhymed prose Satires of Hamadani*, *Materials for the construction of Assyrian History*, *with reference to recent books*, *Studies in Hebrew Literature*, *Isaiah and the Assyrian Monuments; A study of the Book of Job*, *Hebrew Poetry*, and *The Druses of Mt. Lebanon*, were prepared by Professor LYON, and Messrs. E. E. ATKINSON, BERENSON, G. R. CARPENTER, FENN, J. R. JEWETT, KELLNER, OPPENHEIM, and ORNE.

The Mathematical Seminary: Lectures on *The Discussion of a Trigonometric Surface*, *The Geometry of Descartes*, *The Theory of Substitutions*, *Imaginary Loci*, *The Discussion of a Riemann's Surface*,

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The Curve of the Third Degree, *The Theory of Capillarity*, *The Deflective Force of the Earth's Rotation*, *The Discussion of a Differential Equation*, *Some Equations in Theoretical Astronomy*, *Infinites and Infinitesimals*, *Some Theorems in the Theory of Numbers*, and *The Curvature of Surfaces*, were given by Professor J. M. PEIRCE, Dr. COLE, Mr. SAWIN, and Messrs. M. BÔCHER, HARRIMAN, G. H. JOHNSON, MARKLEY, W. F. OSGOOD, and F. M. SMITH.

The Romance Philology Conference: Papers on *The proper use of Phonetic Spelling in Linguistic Studies*, *Sweet's Elementarbuch des gesprochenen Englisch*, and *The pronoun* Ille *in Italian*, were read by Asst. Professor SHELDON and Mr. GRANDGENT.

The Harvard Classical Club: An illustrated lecture on *Petra and the Sinaitic Peninsula*, by E. S. PHILBRICK, Esq., and Professor GREENOUGH.

The Harvard Finance Club. A lecture on *Political Economy and Christianity*, by Asst. Professor LAUGHLIN.

The Harvard Natural History Society: Ten lectures on the following subjects, — *Massachusetts Reptiles*, by Mr. GARMAN, of the Museum of Comparative Zoölogy; *Massachusetts Butterflies*, by Mr. S. H. SCUDDER; *Massachusetts Birds*, by Mr. WILLIAM BREWSTER; *Something about Crabs*, by Dr. J. S. KINGSLEY, Editor of the "American Naturalist"; *Beetles*, by Mr. GEORGE DIMMOCK; *Some New England Jelly-Fishes and Polyps*, by Professor S. F. CLARKE, of Williams College; *Massachusetts Spiders*, by Mr. J. H. EMERTON; *Land and Freshwater Mollusca of Massachusetts*, by Professor E. S. MORSE, Director of the Peabody Academy of Science; *Common Worms*, by Dr. C. S. MINOT; and *Sponges*, by Professor ALPHEUS HYATT, of the Massachusetts Institute of Technology.

The Boylston Chemical Club: A lecture on *The Laws of Nature*, by Professor COOKE.

Der deutsche Verein: A lecture, in German, on *Bismarck and the German Parliament*, by Dr. FRANCKE.

The Harvard Total Abstinence League: A lecture on *The Physiological Effects of Alcohol*, by Professor JAMES; and a lecture on *New Temperance Issues*, by Rev. JOSEPH COOK.

The Harvard Young Men's Christian Association: Addresses by Mr. D. L. MOODY, Rev. Mr. GORDON, and Professor PALMER.

The St. Paul's Society: Sermons during Lent by the BISHOPS OF CENTRAL NEW YORK, MAINE, and ALBANY.

An address on *Present Aspects of the Indian Question*, by Mr. HERBERT WELSH, before the Cambridge Indian Rights Association; an address on *The Indians*, by Maj. Gen. GEORGE CROOK, before the Cambridge Women's Indian Association, and addresses by Gen. S. C. ARMSTRONG, and others, at a meeting in the interests of Hampton Institute.

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Monday, Wednesday, and Friday.

9–10.		10–11.		11–12.	
IV. Greek *B.* / II. Greek *C.*	S. 26.	Greek 11. *W. F.*	S. 15.	III. Greek *B.*	S. 25.
Latin 13.	S. 16.	Latin 1.	S. 18.	Greek 5.	S. 29.
III. Eng. *A. W.*	S. 5.	Latin 6.	S. 14.	Latin *A.*	S. 14.
English 11.	U. 2.	IV. English *A. W.*	S. 5.	Latin 8.	S. 13.
I. Germ. *A. M. F.*	S. 5.	English 2.	U. 2.	V. Eng. *A. W.*	S. 5.
German 7. *W. F.*	S. 4.	II. German *A. M. F.*	S. 5.	English 3.	U. 2.
French 1. *F.*	S. 11.	German 3.	S. 6.	English 5.	S. 1.
I. French 1. *M. W.*	S. 19.	III. French 1. *M. W.* (*F.* at 9).	S. 19.	Eng. 12.	S. 11.
II. French 1. *M. W.*	S. 20.	French 2.	S. 23.	III. Germ. *A. M. F.*	S. 5.
French 3.	S. 23.	Spanish 1.	U. 10.	German 5.	S. 2.
I. Pol. Econ. 1.	U. 4.	II. Pol. Econ. 1.	U. 16.	IV. French 1. *M. W.* (*F. at* 9).	S. 20.
Hist. 14.	U. 20.	Hist. 1.	Mass. 3.	Spanish 2.	U. 10.
III. Physics *B. F.* 9–11 (*W.* 10).	J. 41.	Hist. 8.	H. 6.	Philos. 6.	S. 17.
Chemistry *C. W. F.*	B. 8.	Hist. 20 *d. W. F.*	Libr'y.	Pol. Econ. 4.	Mass. 3.
Chemistry 5.	B. 12.	I. Math. *A.* 1st h.y.	U. E. R.	Hist. 9.	H. 6.
Nat. Hist. 1.	L.	Math. 3.	S. 24.	II. Math. *A.* 1st h.y.	U. E. R.
Nat. Hist. 5. *M. W.* 9–1 (*F.* 2–5).	Z.	Physics *B. W.*	J. 1.	Math. *B.* 2d h. y.	U. E. R.
Nat. Hist. 14.	Z.	Physics *C. M. F.*	J. 41.	Math. *C.*	U. 19.
		Chemistry 2.	B. 8.	I. Math. *D.* 1st h.y.	H. 5.
		Chemistry 7.	12 Ware St.	Math. 2.	L. 12.
		Nat. Hist. 8.	Z.	Math. 5.	S. 24.
				I. Physics *B. W.* 11–1 (*W.* 10).	J. 41.
				Chemistry 6.	12 Ware St.
				Nat. Hist. 22. *Tu. W.*	Z.

Tuesday, Thursday, and Saturday.

Greek 1.	S. 25.	Sem. 10. 2d h.y.	S. 9.	Indo-Iran. 3.	S. 15.
Greek 8.	S. 29.	I. Latin *C.*	S. 7.	Greek *A.*	S. 25.
Latin 2.	S. 18.	II. Latin *C.*	S. 18.	Greek 7. *Tu.*	S. 26.
Latin 4. 2d h. y.	S. 13.	Greek 2.	S. 30.	II. Latin *B.*	S. 24.
English *A. Tu. S.*	S. 11.	Greek 6. 1st h.y.	S. 29.	III. Latin *C.*	S. 18.
German *A. Th.*	Mass. 3.	Greek 6. 2d h.y.	S. 26.	II. Eng. *A. Tu.*	S. 5.
French 4.	S. 19.	Greek 9. 2d h. y.	S. 29.	VI. Germ. *A. Tu. S.*	U. 17.
French 5. *Tu. S.*	S. 23.	I. Latin *B.*	S. 24.	I. Germ. 1.	S. 6.
Hist. 5. *Tu. Th.*	D. L. 3.	I. Latin *C.*	S. 7.	Rom. Phil. 1. 1st h.y. (*W.* at 4).	S. 8.
Hist. 12.	H. 6.	Latin *D.*	S. 14.	Rom. Phil. 2. 2d h.y. *Th. S.*	S. 8.
Hist. 16. *Th. S.*	D. L. 4.	I. Eng. *A. Tu.*	S. 5.	Philos. 4.	U. 16.
Fine Arts 8.	S. 35.	V. Germ. *A. Tu. S.*	U. 17.	Hist. 2. 1st h.y. / Hist. 17. 2d h.y.	Mass. 3.
IV. Physics *B. S.* 9–11 (*W.* 10).	J. 41.	Germ. 4. *Tu. Th.*	S. 6.	Hist. 18.	H. 6.
Physics 1. *Th.* 9–11 (*F.* 4–5).	J. 41.	Germ. 9. *Tu. Th.*	S. 2.	Fine Arts 4.	S. 33.
Nat. Hist. 6.	Z.	French 8. *Tu.*	S. 23.	Math. 4.	H. 5.
I. Nat. Hist. 4a. *Tu. Th.* 9–11.	Z.	Italian 1.	U. 10.	V. Physics *B. S.* 11–1 (*W.* 10).	J. 41.
		Philos. 11. *Tu. Th.*	L. 1.	II. Nat. Hist. 4a. *Tu. Th.* 11–1.	Z.
		Pol. Econ. 9. 1st h.y. *Tu. Th.*	U. 4.	Nat. Hist. 21. *Th.*	Z.
		Hist. 15.	U. 2.	Nat. Hist. 22. *Tu. W.*	Z.
		Math. *E.* 2d h. y.	H. 5.		
		Math. *G.* 1st. h.y.	H. 5.		
		Physics 2. *Tu.*	J. 41.		
		Phys. 7. *Tu. Th.*	J. 28.		
		Nat. Hist. 2. *Tu. Th.* 1st h.y.	Z.		
		Nat. Hist. 3. *Tu. Th.* 2d h.y.	H. 1.		
		Nat. Hist. 20. *Tu. Th.*	L.		
		Nat. Hist. 23.	Z.		

Abbreviations: —S. Sever Hall. U. University Hall. H. Harvard Hall. L. Lawrence Hall. B. Boylston *M., Tu., W., Th., F., and S.*

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Monday, Wednesday, and Friday.

12–1.		2–3.		3–4.	
Indo-Iran. 1.	S. 15.	Semitic 7. *M.W.*	S. 9.	Semitic 1.	D.L.
I. Greek *B.*	S. 30.	Greek *E. M.alt.F.*	S. 29.	Semitic 2. *M.W.*	D.L.
II. Greek *B.*	S. 25.	Greek 14. *W.* (2h.) 2d h.y.	S. 27.	II. Greek *C.*	S. 25.
Greek 12.	S. 26.	Latin *E. W. alt. F.*	S. 29.	Gr. & Lat. 1.	S. 15.
Latin 14. *W.*	M. 7.	German 2.	S. 2.	Gr. & Lat. 2. *M.Th.* 3–4½.	S. 16.
English 14. *W.*	S. 1.	I. French *A.*	S. 20.	English 6. *W.* 3–5.	U. 16.
IV. Germ. *A. M.F.*	S. 6.	Spanish 3.	U. 10.	II. French *A.*	S. 20.
Italian 3.	U. 10.	Pol. Econ. 2.	U. 4.	Philos. 3.	U. 17.
Philos. 2.	L. 1.	Rom. Phil. 4. 2d h.y. *M. F.*	S. 3.	Pol. Econ. 7.	U. 13.
Philos. 13.	U. 17.	Pol. Econ. 2.	U. 4.	Rom. Law 1.	H. 6.
Math. *F.* 2d h.y.	H. 5.	Fine Arts 1.	S. 32.	Fine Arts 2. *M.F.*	S. B.
Math. 6.	U. 19.	Music 3.	Dane.	Music 2.	Dane.
Chem. 1. *M. F.*	B. 9.	III. Nat. Hist. 4ª. *M.W.* 2–4.	Z.	II. Math. *D.* 1st h.y.	H. 5.
Chem. 3.	B. 12.	Nat. Hist. 5. *F.* 2–5. (*M.W.* 9–1).	Z.	Math. 1. *W. F.*	H. 4.
Nat. Hist. 4.	Z.	Nat. Hist. 13. 1st h.y.	Z.	Math. 10. *Tu. W. Th.*	S. 24.
				II. Chem. 1. *W. F.* (2h.)	B. 13.
				Chem. 4 & 4*a*.	B. 2.
				Rom. Philol. 1. 1st h.y. *W.* 4 (*S.* at 11).	S. 8.
				Philos. 9. *M.* 7.30.	18 Garden St.
				Music 6. *M.* at 4, *Th.* at 3.	Dane.
				Physics 1. *F.* 4–5 (*Th.* 9–11).	J. 41.

Tuesday, Thursday, and Saturday.

Indo.-Iran. 2.	S. 15.	Latin 3. *Th.*	S. 18.	Semitic 5. *Tu. Th.*	S. 9.
I. Greek 3. *Tu.*	S. 26.	Eng. *B. Tu.*	S. 11.	Semitic 8. *Tu. Th.*	S. 9.
Greek 15. *Tu. Th.*	S. 27.	I. French 9. *Tu. Th.*	S. 23.	II. Greek 3. *Tu.*	S. 26.
Latin 7. *S.*	S. 7.	I. French 10.	S. 20.	Gr. & Lat. 2. *M. Th.* 3–4½.	S. 16.
English 15. 2d h.y. *Tu. Th.*	S. 1.	Rom. Philol. 3. *Th.* 2–4.	S. 8.	English 8. 1st h.y. *Tu. Th.*	S. 5.
II. German 1.	S. 6.	Pol. Econ. 6. *Tu. Th.* 2d h.y.	U. 4.	II. French 9. *Tu. Th.*	S. 23.
Italian 2.	U. 10.	Pol. Econ. 8. *Tu. Th.* 1st h.y.	U. 4.	II. French 10. *Tu. Th.*	S. 20.
Philos. 1.	U. 16.	Hist. 20ª *Tu. Th.*	H. 6.	French 11. *Tu. Th.*	S. 19.
Philos. 5.	S. A.	Mus. 1. *Tu.* (2h.) *Th.*	Dane.	Pol. Ec. 3. *Tu. Th.*	U. 4.
History 13.	Mass. 3.	II. Physics *B. Th.* 2–4 (*W.* 10).	J. 41.	History 6. *Tu. Th.*	U. 20.
Fine Arts 6.	S. 16.	Chem. *B. Tu.* or *Th.* 2–4.	B. 5.	Music 6. *Th.* (*M.* at 4).	Dane.
Math. 11. *Tu. Th.*	L. 12.	I. Chem. 1. *Tu. Th.* (2 h.)	B. 13.	Math. 10. *Tu. W. Th.*	S. 24.
Phys. *A. Th.* 2d h.y.	J. 2.	IV. Nat. Hist. 4ª. *Tu. Th.* 2–4.	Z.	Math. 7. *Th.* at 4.	U. 19.
Chem. *A. Th.* 1st h.y.	B. 9.	Nat. Hist. 7. *Tu. Th.*	H. 1.		
Chem. *B. Tu.*	B. 9.				

Hall. J. Jefferson Physical Laboratory. D. Divinity Hall. D.L. Divinity Library. Z. Zoological Museum, stand for the days of the week.

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GROUPS FOR THE MID-YEAR AND FINAL EXAMINATIONS.

No student will be examined in more than one course in any of these groups, with the exception of half-courses which are not given in the same half year, and of the following: Greek *E* and Latin *E*, Greek 3 and Latin 3, Greek 7 and Latin 7.

I.
Greek 11.
Latin 13.
English 1, 11, 13.
German 7, 8.
French 1, 3.
Philosophy 10.
Political Economy 1.
History 10, 14.
Chemistry *C*, 5.
Natural History 1, 14.

II.
Latin 1, 6, 16.
English 2.
German 3.
French 2, 6.
Spanish 1.
History 1, 8, 20*d*.
Mathematics 3, 8, 9.
Physics *B*, *C*, 5.
Chemistry 2, 7.
Natural History 8.

III.
Greek 5
Latin *A*. 8.
Greek and Latin 2.
English 3, 4, 5, 12.
German 5.
Spanish 2.
Philosophy 6, 7.
Political Economy 4.
History 9.
Math. *A*, *B*, *C*, 2, 5, 13.
Natural History 18, 24.

IV.
Semitic 9, 11.
Greek *B*, 10, 12.
English 14.
German 10.
Italian 3.
Philosophy 2, 13.
History 4, 11.
Mathematics *F*, 6.
Physics 4.
Chemistry 1, 3, 6.
Natural History 4.

V.
Semitic 6, 7.
Sanskrit 2.
Greek *E*, 13, 14.
Latin *E*, 14.
Greek and Latin 1.
German 2.
Spanish 3.
Romance Philology 4.
Political Economy 2.
Fine Arts 1.
Music 3.
Natural History 5, 13.

VI.
Semitic 1, 2.
Sanskrit 1.
Greek *C*.
English 6.
Philosophy 3.
Political Economy 7.
Roman Law 1.
Fine Arts 2.
Music 2.
Mathematics 1.
Chemistry 4, 4*a*.

VII.
Semitic 4, 12.
Greek 1, 8.
Latin 2, 4.
English *A*.
French 4, 5.
History 5, 12, 16
Fine Arts 8.
Physics 6.
Natural History 6.

VIII.
Semitic 3, 5, 10.
Greek 2, 6, 9.
Latin *B*, *D*.
German 4, 6, 9.
French 8.
Italian 1.
Philosophy 11.
Political Economy 9.
History 15.
Mathematics *D*, *E*, *G*.
Physics 1, 2.
Nat. History 2, 3, 23.

IX.
Greek *A*, 7.
Latin *C*, 7.
Romance Philology, 1, 2.
Philosophy 4.
History 2, 17, 18.
Fine Arts 3, 4.
Mathematics 4, 11, 12.
Physics 3.
Natural History 21.

X.
Sanskrit 3.
Greek 15.
English 15.
German 1.
Italian 2.
Philosophy 1, 5.
History 13.
Fine Arts 6.
Mathematics 10.
Chemistry *B*.

XI.
Iranian.
Pāli.
Greek 3.
Latin 3.
Polit. Economy 6, 8.
Music 1.
Natural History 7.

XII.
Semitic 8.
Latin 12.
English 7, 8, 9.
French 9, 10, 11.
Political Economy 3.
History 6.
Music 5, 6.
Physics 7.

XIII.
German *A*.
French *A*.

The order of groups for the Mid-Year Examinations will be announced December 15; and for the Final Examinations, April 15.

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HONORS.

SECOND-YEAR HONORS IN CLASSICS, IN MATHEMATICS, AND IN PHYSICS.

Second-Year Honors of two grades — *Honors* and *Highest Honors* — are open to Sophomores and Juniors, and to Seniors who intend to be candidates for Final Honors in some year after graduation; they are open to Freshmen only by special vote of the Faculty.

These Honors are awarded by the Faculty, on the recommendation of special committees of examiners, and the award is printed with the annual Rank List and in the University Catalogue.

No one can be a candidate at graduation for Final Honors in the Classics, in Mathematics, or in Physics who has not previously taken Second-Year Honors in the same department (but see the exception mentioned below in the statement regarding Honors in Classics); no one can be a candidate for Honors in Sanskrit who has not previously taken Second-Year Honors in Classics.

Candidates for Second-Year Honors are required to register their names at the Dean's office as early as *the first day of April* of the year in which they present themselves for examination. Candidates for Classical Honors will designate at the same time which elective courses they intend to offer to satisfy the first condition, as described below.

I. Classics.

Second-Year Honors in *Classics* are awarded on two conditions. The first condition is distinguished excellence in classical studies amounting to *four courses*. The second condition consists in passing with distinction a special examination, directed to testing

(*a*) The candidate's ability to translate Greek and Latin at sight. (The passages set for this purpose will be taken from the following writers only: Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Thucydides, Herodotus, Xenophon, Lysias, Plato, Demosthenes; Terence, Catullus, Virgil, Horace, Tibullus, Propertius, Ovid, Caesar, Cicero, Nepos, Sallust, Livy, Velleius Paterculus, Tacitus.)

(*b*) His ability to write Greek and Latin prose.

(*c*) His knowledge of Greek and Roman history, antiquities, and mythology; of Greek and Roman literary history, so far as relates to the writers named above; and of Greek and Latin Grammar.

This special examination is held near the end of the academic year.

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II. Mathematics.

Second-Year Honors in *Mathematics* are awarded on two conditions: (1) distinguished excellence in such mathematical courses as may be approved for candidates for these honors; and (2) passing with distinction a special examination which may be extended to cover the whole mathematical knowledge of the candidates. The special examination will be held near the end of the academic year.

The following courses are those regularly approved for candidates for Second-Year Honors in Mathematics: —

Courses *A* and *E*, or the corresponding admission examinations; Course *G*; Course *C*; Course 2; and Course 3, Course 4, Course 5, or Course 6.

A student offering Course 4 may substitute Courses *B* and *F*, or the corresponding admission examinations for Course *C*.

Other substitutions for the above courses may be allowed, on special petition.

III. Physics.

Second-Year Honors in *Physics* are awarded on two conditions. The first condition is distinguished excellence in the work of Courses *A*, 1, and 2 in Physics, and of two other elective courses, of which one must be in Physics and the other either in Physics or in Mathematics. The second condition is passing with distinction a special examination in the principles of Physics, the absolute system of physical measurement, and the elementary principles of Plane Trigonometry and of Analytic Geometry.

HONORS AT GRADUATION.

Honors of two grades — *Honors* and *Highest Honors* — are given at graduation for great proficiency in any of the following departments: Semitic Languages; Sanskrit; Classics; English; Modern Literature; Philosophy; Political Science; History; Music; Mathematics; Physics; Chemistry; Natural History.

The qualifications required for Honors in these subjects respectively are as follows: —

In *Semitic Languages* the candidate must have taken the equivalent of five courses, and must also have performed such additional work in the department as may be required of him.

In *Sanskrit* the candidate must have received Second-Year Honors in Classics, and must have taken the three courses in Sanskrit and one of the following: Greek and Latin 1 (Comparative Philology), History 16, the course in Old Iranian, and the course in Pāli.

In *Classics* the candidate must have taken the equivalent of six courses, with the liberty of substituting any course in Sanskrit or Course 6 in Fine

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Arts for one classical course; must be able to read ordinary Greek and Latin at sight and to write Greek and Latin prose; and must have taken Second-Year Honors in Classics; but students admitted to college as Seniors may, on the recommendation of the classical instructors, upon evidence of good work done by them elsewhere, be excused from the examinations for Second-Year Honors.

In *English* the candidate must have taken elective work amounting to six courses, one of which must be a course in English writing.

In *Modern Literature* the candidate must be able to read French and German with facility at sight, and must have taken two elective courses or their equivalent in English, two in French, and two in German. These he may choose from among the following: — in English, 1, 2, 7, 8, 9, 10, 11, 13, 14, 15; in French, 3, 4, 5, 6; in German 3, 4, 5, 6, 7. Course 3 in Italian, or Course 3 in Spanish, or Course 8 in Fine Arts may be substituted for any French or any German course above-mentioned; but no substitution will be allowed for English. The special examination of every candidate will include a thorough examination in the works of some author to be determined with the approval of the committee of examiners.

In *Philosophy* the candidate must have taken six courses, including Course 6 or 7, with the liberty of substituting Course 8 in Greek for one other course in Philosophy.

In *Political Science* the candidate must have taken the equivalent of six courses, selected from those in Political Economy and Roman Law, and Courses 11, 12, 13, 14, 15, in History; provided, however, that of the courses selected one shall be in Political Economy, one in Constitutional Law (either History 13 or 14), and one in Jurisprudence (either History 15 or a course in Roman Law).

In *History* the candidate must have taken six courses, with the liberty of substituting for courses in History, one in Political Economy and one in Roman Law.

In *Music* the candidate must have taken five courses, and must also pass an examination in Acoustics.

In *Mathematics* the candidate must have received Second-Year Honors in Mathematics, must in addition have taken four advanced courses, and must also present a satisfactory thesis.

In *Physics* the candidate must have received Second-Year Honors in Physics, and must in addition have taken three advanced courses in Physics, and one other advanced course either in Physics or in Mathematics (the latter not being counted for Honors in Mathematics); but it is essential that the candidate shall have taken Courses 4, 5, and 6 in Physics, and Course 2 in Mathematics. He must also present a satisactory thesis.

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In *Chemistry* the candidate must have taken five courses, and must pass an examination in Chemical Philosophy.

In *Natural History* the candidate must have taken six courses, with the liberty of substituting Course 2 in Chemistry for one course in Natural History. Advanced work in the Summer School of Geology may be counted toward Honors as equivalent to Course 16, but will not be counted toward the degree of Bachelor of Arts.

Every candidate for Honors in Natural History must give notice of his candidacy to the chairman of the committee in that department on or before the first day of March in his Sophomore or Junior year. At the end of that year he must pass satisfactory special examinations in at least two of the courses in which he intends to present himself. In the following summer he must pursue, under the direction of his instructor, field or laboratory studies in some one of his designated courses, present a satisfactory report of his work, and pass such examinations as may be required by the committee.

Students who take Natural History 16 in the summer for Honors must add the beforementioned summer work to that required in Natural History 16.

In every case the candidate must pass with distinction the regular examinations on the courses required of him as above; must also, near the close of the Senior year, pass a special examination, conducted by a committee of the Faculty, to test the range and accuracy of his knowledge of the subject in which he offers himself for Honors; and must present such theses as may be required of him.

Students who have failed to pass with distinction any of the examinations required for Honors may, with the consent of the Faculty, make up their deficiencies by passing such additional examinations as may be required of them, but no such permission will be granted for failures occurring after the beginning of the Senior year.

Honors, however, will be given to graduates not entitled to them at graduation who shall have complied with all the requirements for Honors in any department within two years after graduation.

Every student who desires to be regarded as a candidate for Honors at graduation must present a written application to the Dean before the *first day of November* in his Senior year, but a candidate for Honors in Natural History must give notice as stated above as early as the first day of March in his Sophomore or Junior year. Such application will be granted only on the recommendation of the instructors in the department concerned.

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HONORABLE MENTION AT GRADUATION.

Such members of the graduating class as are selected by the Faculty receive Honorable Mention, on the Commencement programme and in the next following Annual Catalogue, in any one or more of the following studies: Semitic Languages; Sanskrit; Greek; Latin; English; English Composition; German; French; Italian and Spanish; Romance Philology; Philosophy; Political Economy; History; Fine Arts; Music; Mathematics; Engineering; Physics; Chemistry; Natural History. The usual ground of Honorable Mention in any study will be the attainment of Grade *A* or *B* in elective work (not elementary) in that study, amounting to *three courses*. The Faculty, however, reserve the liberty of considering individual cases on their merits, and departing from the strict application of the above rule. If a student earns Honorable Mention *twice* in any study, the fact is so stated.

The following special regulations have been adopted as to the award of Honorable Mention: —

Greek. The count must include Course 6, 8, or 9. Courses *A*, *B*, *C*, and *E* cannot be counted.

Latin. Courses *A*, *B*, *C*, *D*, and *E* cannot be counted.

English Composition. English *A*, and English *B*, *C*, and *D*, taken together, may each be substituted for one Elective Course; but no thesis substituted for a forensic will be counted for Honorable Mention unless approved by the English department.

German. Courses 1, 2, and 9 cannot be counted.

French. Courses 1, 8, and 9 cannot be counted.

Italian and Spanish. Neither Italian 1 nor Spanish 1 can be counted.

Philosophy. Of Courses 1, 2, and 3, only one can be counted.

History. Courses 1, 2, and 17 cannot be counted.

Mathematics. The count must include Course 5, 6, or 8. Courses *B*, *A*, *C*, *D*, *E*, *F*, and *G* cannot be counted.

Physics. Courses *B* and *C* cannot be counted.

Chemistry. Courses *B* and *C* cannot be counted. Of Courses 1 and 2, only one can be counted.

Natural History. The count must include Course 6, 7, or 8.

No course can be counted for Honorable Mention in more than one department for the same student.

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PRIZES.

I. DETURS.

A distribution of books called *Deturs* is made from the income of the Hopkins Foundation, near the beginning of the Academic Year, to meritorious students of one year's standing. *Deturs* are also given to those members of the Junior Class who, not having received them in the Sophomore year, shall, in the course of that year, have made decided improvement in scholarship. Last year twenty-six *Deturs* were given in the Sophomore Class and three in the Junior Class.

II. BOWDOIN PRIZE DISSERTATIONS.

Nine prizes, from the foundation of James Bowdoin, are offered to students resident at the University.

I. Two prizes (*one hundred dollars each*) for the best dissertations on any of the subjects enumerated in II., III., and IV., or for the best translations of either of the passages proposed for translation into Latin or Greek in III. (*b*), written by Graduates of any college who are resident at the University as students in the Graduate Department, or by members of the Senior Class of 1887–88 in Harvard College.

II. Three prizes (not more than *one hundred dollars* nor less than *fifty dollars each*) for the best dissertations on any of the following subjects, written by students of more than one year's standing in any department of the University who have never received an academic degree: —

1. *The possible evolution of a Socialistic or Communistic civilization.*
2. *Burke's views on the proper relations between England and Ireland.*
3. *The theory that Bacon wrote Shakespeare's plays.*
4. *Longfellow's place in English literature.*
5. *An estimate of Gibbon's History, a hundred years after its completion.*
6. *The prospects of Constitutional Government in Germany.*
7. *Neo-Platonism in Plato.*
8. *The literary style of Caesar, the Duke of Wellington, and Grant.*

III. (*a*) One prize (not more than *one hundred dollars* nor less than *fifty dollars*) for the best dissertation on any of the following subjects, written by students of more than one year's standing in any department of the University who have never received an academic degree: —

1. *The Literary Judgments of Aristophanes.*
2. *Proverbial Philosophy in Euripides.*
3. *Cicero's Provincial Administration.*
4. *A Roman "Interior" in the time of Augustus.*

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(*b*) One prize (not more than *one hundred dollars* nor less than *fifty dollars*) for the best translation of either of the following passages, written by students of more than one year's standing in any department of the University who have never received an academic degree: —

1. *A translation into Attic prose from John Morley's address* (Feb. 26, 1887), "*On the Study of Literature*," *the concluding sentences, beginning at "Before closing I should like to say one word."*

2. *A translation into Latin from J. R. Lowell's Harvard Anniversary address, from the paragraph beginning "The most precious property of culture" through the paragraph ending "thickness of wall does not make it impossible."*

IV. Two prizes (not more than *one hundred dollars* nor less than *fifty dollars each*) for the best dissertations on any of the following subjects, written by students of more than one year's standing in any department of the University who have never received an academic degree: —

1. *The United States Geological Surveys; their methods and results.*
2. *The development of the Law of Storms, and its modern amendments.*
3. *Poisonous colors and the public health.*
4. *Means by which the higher and lower plants are distributed.*
5. *Pasteur's researches.*

Dissertations offered by *Seniors of* 1887–88 must be deposited with the Dean of the College Faculty on or before Commencement 1888. All other dissertations for these prizes must be deposited with the Dean of the College Faculty on or before the *first day of November*, 1888. The title-page must, with an assumed name, state the standing of the writer, as Graduate or Undergraduate, and, if the latter, of what class, and in what department of the University. A sealed letter must be sent in at the same time, under cover with the dissertation, containing the true name of the writer, and superscribed with his assumed name.

The dissertations must be written upon letter paper of good quality, of the quarto size, with a margin of not less than one inch at the top and bottom, and on each side, so that, if successful, they may be bound up without injury to the writing. The sheets on which the dissertation is written must be securely stitched together.

The dissertations must not exceed in length the amount of twenty-five printed pages of the North American Review.

The authors of successful dissertations are invited to read them in public at a place and time to be designated by the Dean.

III. THE CHAUNCEY WRIGHT PRIZE.

A prize of *twenty-five dollars* is offered from the income of the Chauncey Wright Fund for the best mathematical thesis on a subject or subjects announced by the College Faculty.

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At the request of the founder of the fund the subject for the present year is : "*A critical examination of a certain geometrical construction with a view to testing its value as a solution, exact or approximate, of the problem with which it deals.*"

The construction together with the author's description of it can be obtained of Asst. Prof. B. O. PEIRCE, Jefferson Physical Laboratory, Room 38.

Persons who pursue regular courses of study at the University during the year 1887–88, as Juniors, Seniors, or Graduates, may compete for this prize.

The theses must be deposited at the President's office on or before the *first day of November*, 1888. In every case the writer must inscribe an assumed name on the title-page. A sealed letter must be sent in at the same time under cover with the thesis, superscribed with the assumed name, and containing the true name of the writer.

IV. DANTE PRIZE.

An annual prize of *one hundred dollars* is offered for three years by a member of the Dante Society for the best essay by a student in any department of the University, or by a graduate of not more than three years' standing, on a subject drawn from the Life or Works of Dante.

For the second year, 1887–88, the subjects proposed are as follows : —

1. *Interpretation and reconciliation of the different accounts of his experiences after the death of Beatrice, given by Dante in the Vita Nuova and the Convito.*

2. *Dante's obligations to Aristotle.*

3. *The range and extent of Dante's acquaintance with the ancient classics.*

4. *A translation, with comment, of Dante's* Quaestio de Aqua et Terra.

5. *The characteristics and respective value of Scartazzini's and Lubin's editions of the Divine Comedy.*

Essays must be deposited with the Dean of the College Faculty on or before the *first day of May*, 1888.

For the third year, 1888–89, the subjects proposed are as follows : —

1. *The influence of Dante upon the political development of Italy during the present century.*

2. *The character of the Comment on the Divine Comedy of Benvenuto da Imola, and the contribution to Dantesque studies made by its first complete publication in the Vernon edition, 1887.*

3. *A translation, and a discussion of the genuineness, of the letter of Frate Ilario.*

4. *Dante's conception of the nature of the body in the spiritual realms.*

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5. *On the genuineness and authenticity of the Chronicle of Dino Compagni, and its value in illustration of Dante's life.*

Essays must be deposited with the Dean of the College Faculty on or before the *first day of May*, 1889.

Essayists in either year are at liberty to write on any one of the subjects which have been proposed for the three years during which this prize has been offered.

The title-page must, with an assumed name state the standing of the writer, as Graduate or Undergraduate, and, if the latter, of what class, and in what department of the University. A sealed letter must be sent in at the same time, under cover with the dissertation, containing the true name of the writer, and superscribed with his assumed name.

The dissertations must be written upon letter paper, of good quality, of the quarto size, with a margin of not less than one inch at the top and bottom, and on each side, so that, if successful, they may be bound up without injury to the writing. The sheets on which the dissertation is written must be securely stitched together.

The judges of the essays will be a committee of the Dante Society.

In case the judges deem that no essay submitted to them deserves the full prize, they will be at liberty to award one or two prizes of fifty dollars each, or not to award any prize at all.

V. THE SARGENT PRIZES.

Two prizes of *fifty dollars* each, the gift of John Osborne Sargent, of the class of 1830, are offered for translations from the Latin as follows: —

1. *For the best rhymed version of the first Ode of the third Book of Horace.*

2. *For the best translation of Cicero's Oration for the Poet Archias.*

Students in regular standing in any department of the University, and students pursuing courses of instruction in Cambridge, under the direction of the Society for the Collegiate Instruction of Women, may compete for these prizes. The prizes may be withheld if no competitors appear to deserve them.

The versions must be neatly and legibly written upon letter paper of good quality, of quarto size, with a margin of not less than one inch at the top and bottom, and on each side; and the sheets must be securely stitched together. They must be deposited in the office of the Dean of the College Faculty on or before the *first day of May*, 1888. Each version must have inscribed upon its title-page an assumed name of the writer, and must be accompanied by a sealed envelope containing the writer's real name and superscribed with the assumed name.

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VI. BOYLSTON PRIZES FOR ELOCUTION.

On the second Thursday of May of each year, there is a public exhibition and trial of the skill and proficiency of the students of the College in elocution, at which the Boylston Prizes are awarded.

The speakers are not to rehearse their own compositions, but to select pieces from English, Greek, or Latin authors. The selections must be approved by the Boylston Professor of Rhetoric and Oratory. The proportion in English is to be at least two out of three.

The competitors must be of the Senior or the Junior Class, and must enter their names with the Boylston Professor *before the last Thursday of April*. No application will be received after that time.

The Corporation, and gentlemen selected by the Corporation, will act as judges, and award the prizes as follows: —

Two First Prizes, of *sixty dollars* each; and three Second Prizes of *forty-five dollars* each. The First Prizes may be withheld if none of the competitors appear to deserve them.

At this exhibition, no prompting of the speakers will be allowed; and a failure of memory in any one will exclude him from being considered in the assignment of the Prizes.

For a statement of the conditions of the *Toppan Prize* and the *Sumner Prize*, see pp. 275, 276.

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PECUNIARY AID.

The experience of the past warrants the statement that good scholars of high character but slender means are very rarely obliged to leave College for want of money. The forms of College aid which they may receive are scholarships, beneficiary funds, loan funds and monitorships. As soon as they have given proof of ability they can make private tutoring a source of considerable income. Some students support themselves in part by writing for the public press; others by singing or playing the organ in churches. Loans from private sources are not uncommon. This year the amount of aid which the College can assign to proper candidates will be about forty-five thousand dollars.

SCHOLARSHIPS.

The scholarships which may be assigned to undergraduates number one hundred and twenty-one, yielding in the aggregate $29,390. Two of these scholarships, of an annual value of three hundred dollars each, are assignable to special students; and a limited number (ten to twenty) may be assigned to members of the Graduate Department. The annual income of the scholarships varies from ninety to three hundred and fifty dollars, the average amount being about two hundred and fifty dollars. Nearly all are awarded by the Corporation on the recommendation of the College Faculty or of the President. The facts considered in making assignments are the needs of the student, and his promise *as indicated by his previous work in College.* A student who is not in need of aid cannot honorably apply for a scholarship: one who gives little promise of future usefulness, either from physical, mental or moral weakness, cannot properly be awarded one. The special terms under which some scholarships are assigned are stated in detail below.

Scholarships are awarded to Sophomores, Juniors, and Seniors in October, on the basis of the work of the preceding year, and the income is paid to the successful candidates, one third at once, and the remaining two thirds on the presentation of the first and second term bills respectively. The scholarships for the Senior year are assigned just before Commencement, and their entire income is paid immediately. To high scholars of the Freshman class who are in pressing need of assistance, the seven scholarships of the Bright and Bigelow foundations are awarded in January. The income of these scholarships is payable, one third at

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once, and the remaining two thirds on the presentation of the second and third term bills respectively.

No scholarships are assigned or promised to Sophomores, Juniors or Seniors except on the basis of a previous year of work, or to Freshmen until the close of the first three months of their course.

The enjoyment of a scholarship for one year will not constitute any title to a second nomination, unless the superiority for which it was originally awarded be fully maintained. No student who has incurred a serious college censure in the course of the year will be considered a candidate for a scholarship; nor any student who obtains leave of absence for the year in which the scholarship would be payable.

The method of applying for a scholarship is by a petition addressed to the *Dean of the College Faculty*, and deposited in the box at No. 5 University Hall.

Applications for Freshman scholarships must be presented on or before the *first day of November*. Applications for other scholarships must be presented on or before the *last Wednesday in May* of each year. When a candidate applies for the first time, he must give a particular statement of his circumstances, supported by the written testimony of one or more reputable persons to whom he is known; and every subsequent application must affirm the continuance of these circumstances, or state in what respects they have changed.

A Freshman who has received a scholarship in January is not thereby precluded from receiving one in the following October; but no student can receive more than four scholarships in his college course.

Aid from the Beneficiary Funds must be applied for in a separate petition.

A detailed list of the scholarships, arranged in alphabetical order, follows:—

ABBOT SCHOLARSHIP. A fund of two thousand dollars, contributed by persons educated at Phillips Exeter Academy, was established in 1852 in memory of Dr. Benjamin Abbot. The income of this fund is payable to such needy undergraduate as may be selected by the Faculty for scholarship and good character; descendants and other relations of Dr. Abbot and the best scholars from said Academy are to be preferred in the order named. This fund is to accumulate until it amounts to three thousand dollars.

ALFORD SCHOLARSHIP. In 1785 Mrs. Joanna Alford of Charlestown made a bequest of one hundred and thirty three pounds, six shillings, and eight pence, the income from which is to be appropriated to the education of students in indigent circumstances. This fund is to accumulate until it amounts to three thousand dollars.

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BARTLETT SCHOLARSHIP, with an income of two hundred and fifty dollars, from a bequest of five thousand dollars by Dr. Henry Bartlett of Roxbury, of the Class of 1820, "to found and establish a Scholarship, the income duly to be used in aid of meritorious undergraduates who may require such assistance."

BASSETT SCHOLARSHIPS. Three, with an income of ninety dollars each. Francis Bassett of Dennis bequeathed in 1876 five thousand dollars, the income of which is payable equally to three undergraduates, one of the Sophomore, one of the Junior, and one of the Senior Class, to be selected by the Faculty, and to stand above the medium rank in their respective Classes.

BIGELOW SCHOLARSHIPS. Two, with an income of two hundred and fifty dollars each. The sum of ten thousand dollars was received in 1865 as the bequest of Tyler Bigelow of Watertown, the income thereof to be given to indigent undergraduates selected by the Corporation with reference to habits of industry and earnest effort, and without regard exclusively to rank.

BOWDITCH SCHOLARSHIPS. Twenty-two, with an income of two hundred and fifty dollars each, founded in 1860 by Nathaniel Ingersoll Bowditch of Boston, and to be distributed by the President equally among the several Classes to poor and deserving students according to their rank or self-improvement.

BRIGHT SCHOLARSHIPS. Five, with an income of two hundred and fifty dollars each. Established in 1880 under the will of Jonathan Brown Bright of Waltham, with one half the income of the Bright Legacy. Descendants of Henry Bright, Jr., of Watertown, Mass. (died 1686), who may be students in any department of Harvard University, are entitled to enjoy these scholarships; such descendants failing, other students are eligible, provided they are undergraduates.

BROWNE SCHOLARSHIP. Founded by William Browne of Salem and his descendants. In 1687 William Browne, first, bequeathed to the College one hundred pounds, to be improved for the bringing up of poor scholars. In 1708 Benjamin Browne bequeathed two hundred pounds for the same purpose, giving the preference to Salem scholars. In 1716 Major William Browne, second, brother to Benjamin, bequeathed one hundred pounds, the income to be used to help support his descendants while students at the College; if none there, then to help maintain poor scholars from Salem. In 1720 Colonel Samuel Browne gave one hundred and fifty pounds for the same purpose; and added to this gift by his will, in 1731, his estate in Hopkinton, the income therefrom to be used for bringing

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up poor scholars, those recommended by his posterity to be preferred. This fund is to accumulate until it amounts to three thousand dollars.

RULUFF STERLING CHOATE SCHOLARSHIP, with an income of three hundred dollars. Founded in 1884 by Joseph H. Choate of New York. The income is to be paid to "some meritorious student in the undergraduate department of the University who shall require the same."

SCHOLARSHIP OF THE CLASS OF 1802, with an income of two hundred dollars. The class fund of six thousand dollars was received by the College in 1870. The income of the fund is to be used to aid needy and meritorious descendants of members of the Class, and other indigent and deserving students.

SCHOLARSHIP OF THE CLASS OF 1814, with an income of one hundred and fifty dollars. In 1853 this Class raised by subscription a fund of two thousand three hundred dollars, the income of which is to be paid to some meritorious undergraduate holding a respectable rank as a scholar, preference to be given to descendants of members of said Class.

SCHOLARSHIP OF THE CLASS OF 1817, with an income of one hundred and fifty dollars. This Class founded a scholarship in 1864, to be awarded to some meritorious undergraduate of respectable standing as a scholar, but without special reference to academic rank; and descendants of members of the Class are to have the preference as applicants.

SCHOLARSHIP OF THE CLASS OF 1828. Not yet available.

SCHOLARSHIP OF THE CLASS OF 1835. Founded in 1865 by the Class of 1835 for the benefit of meritorious young men, whether descendants of members of the class or otherwise. This fund is to accumulate until it amounts to three thousand dollars.

SCHOLARSHIP OF THE CLASS OF 1841, with an income of two hundred dollars. The class fund of two thousand dollars was received in 1871. The sum of one thousand dollars was added to it anonymously in 1876 by a member of the class, and the sum of two hundred dollars in 1884 by the Class Secretary, Dr. Minot. The income is to be paid to some one deserving undergraduate; descendants of members of the class to have the preference as candidates.

SCHOLARSHIPS OF THE CLASS OF 1856. Two, with an income of three hundred dollars each. In 1885 David Pulsifer Kimball of the Class of 1856 gave railroad bonds to the amount of ten thousand dollars for the establishment of two or more scholarships to be known as Scholarships of the Class of 1856, the income to be used "in the discretion of the Faculty

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to aid two or more undergraduates needing pecuniary assistance in obtaining an education at Harvard College."

SCHOLARSHIP OF THE CLASS OF 1867. Founded in 1886 by Samuel Hoar, Esq., not yet available, except for sons of members of the Class of 1867.

CROWNINSHIELD SCHOLARSHIPS. Two, founded by Francis B. Crowninshield of Boston in 1877, not yet available.

WARREN H. CUDWORTH SCHOLARSHIPS. Mrs. C. M. Barnard offers to provide annually at present for two scholarships of three hundred dollars each in memory of the late Rev. Warren H. Cudworth, "for poor and meritorious students in Harvard College, whether candidates for a degree or not," students from Lowell and from East Boston to be preferred.

DANA SCHOLARSHIP OF THE CLASS OF 1852. Founded by Mrs. Ann F. Schaeffer "in memory of her late son, Charles F. Dana," not yet available.

GEORGE AND MARTHA DERBY SCHOLARSHIP, with an income of two hundred and fifty dollars; founded by Miss Martha C Derby in 1881.

WILLIAM SAMUEL ELIOT SCHOLARSHIP, with an income of two hundred and fifty dollars. Founded, in 1875, by Samuel Eliot of Boston in memory of his son. The income of the gift of five thousand dollars is payable by preference to a student taking a Greek elective, if any such be needy; otherwise, to any student or students at the discretion of the Dean.

FARRAR SCHOLARSHIP, with an income of three hundred dollars. Founded by Mrs. Eliza Farrar of Springfield in memory of her husband, Professor John Farrar. The income of her bequest of five thousand dollars, made in 1870, is for the aid of one meritorious undergraduate.

BENJAMIN D. GREENE SCHOLARSHIP. Founded in 1860 by Benjamin D. Greene of Boston, who bequeathed one thousand dollars to the College "to establish a scholarship for a poor scholar, the appointment thereto to be vested in the President for the time being." This fund is to accumulate until it amounts to three thousand dollars.

PRICE GREENLEAF SCHOLARSHIPS. Ten, with an income of three hundred dollars each, established in 1887 under the will of E. Price Greenleaf of Quincy. The will provides that "a sum equal to, but not exceeding, three thousand dollars a year, shall be divided into shares of three hundred dollars each, and each of said shares shall be paid in each year to an undergraduate, who, by reason of insufficient means, shall be unable to pay the expenses necessarily incurred in pursuing his studies as a member of the Academic Department of the College. In the selection of the ten

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students, preference is to be given to those who by industry, good conduct, and zealous effort shall be deemed by the President and Dean of the College to be meritorious students, and entitled to encouragement and support; it being, however, my wish that said money should not be awarded to any student solely by reference to his rank or standing as a scholar, but that regard should also be had to earnest and honest endeavor to attain excellence."

LEVINA HOAR SCHOLARSHIP, with an income of two hundred and fifty dollars. From a bequest of Miss Levina Hoar of Lincoln, in 1876, for the benefit of needy and meritorious students; preference always to be given to those from the town of Lincoln, in Massachusetts.

HODGES SCHOLARSHIP. Founded by Rev. Richard Manning Hodges of Cambridge in 1878, not yet available.

HOLLIS SCHOLARSHIP, with an income of two hundred dollars. Founded by Thomas Hollis of London in 1722, and his brother, Nathaniel Hollis, in 1732, for the benefit of pious young students designed for the ministry, and who may be needy and deserving.

KIRKLAND SCHOLARSHIP, with an income at present of one hundred and fifty dollars; founded in 1852 by the Class of 1815 in memory of President Kirkland. The income of the fund is to be applied at the discretion of the Corporation; descendants of members of said Class to have the preference as beneficiaries.

GEORGE EMERSON LOWELL SCHOLARSHIPS. Two, with an income at present of two hundred dollars each. Founded in 1886 by Judge Lowell, for the academic department, and excellence either in the classics or in athletics to be considered as one of the desirable qualifications for candidates.

MATTHEWS SCHOLARSHIPS. Fifteen, with an income of three hundred dollars each. Founded by Nathan Matthews of Boston in 1870. The income of the fund is for the aid of needy and deserving scholars; those intending to study for the ministry of the Protestant Episcopal Church to be preferred.

MOREY FOUNDATION. One scholarship, with an income of three hundred dollars, from a bequest of George Morey of Boston in 1866, of which the income is to be awarded to undergraduates of satisfactory conduct and proficiency; the descendants of Rev. George Morey to have the preference.

PALFREY EXHIBITION, with an income of ninety dollars. In 1821 a fund of twelve hundred dollars was given by John Gorham Palfrey, the income of which should be granted annually to the most distinguished scholar among the indigent members of the Senior Class.

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PENNOYER SCHOLARSHIPS. Four: two with an income of one hundred dollars, and two with an income of ninety dollars each. In 1670 William Pennoyer of England gave an annuity from his estate in Norfolk for the benefit of two fellows and two scholars; one of the latter, as often as occasion shall present, to be of the posterity of Robert Pennoyer, and the other from New Haven Colony, if conveniently may be.

REBECCA A. PERKINS SCHOLARSHIP. From a bequest of Rebecca A. Perkins of Fitchburg, received in 1869, for the benefit of some worthy undergraduate needing aid, who must apply in writing to the President of the College, stating his need and sending a certificate thereof from some officer of the city or town where he resides. This fund is to accumulate until it amounts to three thousand dollars.

RODGER SCHOLARSHIP. Founded by Rev. James G. Rodger in 1883; not yet available.

HENRY BROMFIELD ROGERS SCHOLARSHIP, with an income of one hundred and fifty dollars. In accordance with the terms of the original gift, this scholarship has been created from the estimated value of the old Gymnasium given to the College by Henry Bromfield Rogers in 1859, and converted to other uses in 1883. The income is to be used for "the maintenance and education of deserving and talented undergraduates in indigent circumstances."

SALTONSTALL SCHOLARSHIPS. Two, with an income of one hundred dollars each, in the gift of the board of Overseers. In 1730 Madam Mary Saltonstall, widow of Gov. Gurdon Saltonstall of Connecticut, bequeathed to the College one thousand pounds, the income of which is to be given to two persons without means, of bright parts and good diligence (always dissenters), to fit them for the service of the Church of Christ; those related to the giver by consanguinity to be preferred. In 1845 Leverett Saltonstall of Salem added to this fund a bequest of five hundred dollars. By vote of the Board of Overseers this fund is to accumulate for the present.

JAMES SAVAGE SCHOLARSHIP, with an income of three hundred dollars. Founded by James Savage of Boston in 1873.

SEVER SCHOLARSHIP, with an income of one hundred and fifty dollars. Founded by Colonel James Warren Sever of Boston, in 1868. The income from this fund is to be awarded to some meritorious undergraduate without exclusive reference to academic rank; applicants from Kingston and Plymouth are to have the preference.

SEWALL SCHOLARSHIPS. Two, with an income of two hundred dollars each. In 1696 Judge Samuel Sewall of Boston and his wife Hannah conveyed to the College a farm of five hundred acres at Peta-

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quamscot in the Narragansett country, otherwise called King's Province; the income therefrom to be appropriated to the support and education of youths of insufficient means, those from Petaquamscot aforesaid, if any, to be preferred.

SHATTUCK SCHOLARSHIPS. Five, with an income of two hundred dollars each, and eight with an income of one hundred and fifty dollars each, from a bequest made by Dr. George Cheyne Shattuck of Boston, in 1847 for the benefit of needy persons of superior merit pursuing at the College the study of any language or languages, or of mathematics or any branch thereof.

SLADE SCHOLARSHIP, with an income of two hundred and fifty dollars. Founded in 1877 by Dr. Daniel Denison Slade of Chestnut Hill, who gave for the purpose five thousand dollars, the income of which is payable to some meritorious young man who has been at least one year in the College; the benefactor's sons, if at any time candidates, to have the preference.

STORY SCHOLARSHIP. A gift of two thousand dollars was received in 1864 from Augustus Story of Salem, who directed that the income should be awarded by the President, without special reference to class rank, to such deserving applicant as might by his mental power, general character, and physical health, give the largest promise of usefulness. This fund is to accumulate until it amounts to three thousand dollars.

THAYER SCHOLARSHIPS. Ten, with an income of three hundred and fifty dollars each. In 1857 John Eliot Thayer of Boston bequeathed to several persons named by him, in trust, the sum of fifty thousand dollars, to pay the income thereof to ten of the most meritorious scholars in Harvard University who may actually need the same.

GORHAM THOMAS SCHOLARSHIP, with an income of two hundred dollars. In 1865 Dr. Alexander Thomas of Dorchester gave three thousand dollars, to found a scholarship in memory of his son, a graduate of the College.

TOPPAN SCHOLARSHIP, with an income of three hundred dollars. In 1868 Mrs. Ann Toppan of Portsmouth, N. H., bequeathed five thousand dollars to found a scholarship in memory of her husband, Christopher S. Toppan.

TOWNSEND SCHOLARSHIPS. Four, with an income of two hundred and fifty dollars each, and one with an income of two hundred dollars, founded in 1861 by Miss Mary P. Townsend of Boston, by a bequest to the College of twenty thousand dollars, the income of which is to be used for the benefit of indigent scholars.

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WALCOTT SCHOLARSHIPS. Two, with an income of one hundred dollars each. Founded by Samuel Baker Walcott in 1855. The income of the fund, when not less than two hundred dollars, is to be divided equally between two needy and meritorious undergraduates, who are to be nominated by the Faculty and appointed by the President and Fellows.

WILLIAM WHITING SCHOLARSHIPS. Two, with an income of two hundred and fifty dollars each, founded in 1874 by William Whiting of Boston. For the benefit of deserving undergraduates of the College who need aid to defray their college expenses; preference being given to any of the descendants of the founder or of the Rev. Samuel Whiting, his first ancestor in America, who shall apply for, and shall be otherwise in the opinion of the Corporation proper persons to receive such assistance.

PRICE GREENLEAF AID.

The President and Fellows of Harvard College have been enabled by the recent bequest of EZEKIEL PRICE GREENLEAF to appropriate annually about $12,000 "to reduce the general expenses necessarily incurred by undergraduates of the College in pursuing the studies required to obtain the degree of Bachelor of Arts, who are not of themselves, or with the aid of their parents, of sufficient pecuniary ability to pay for the same."

This Price Greenleaf Aid will be distributed, until further notice, in sums of from $150 to $250 a year; and, unlike the ordinary College Scholarships, it will be given, not only to students who have already proved their merit in Harvard College, but also to undergraduates in the first year of their attendance, — that is, to Freshmen, or to persons who have been admitted to advanced standing either with or without examination. To secure aid during the first year of attendance the applicant must be strongly recommended by the college, academy or school with which he has been connected.

Applications for aid for the academic year 1888–89 will be received until May 1st, 1888; and so far as persons not already members of the College are concerned, the award will be made not later than June 1st, 1888; the money to be payable in instalments during the year 1888–89, but only to persons who may be undergraduates at the time of payment.

For blank forms of application, and information about necessary expenses, address FRANK BOLLES, *Secretary of Harvard University*, Cambridge, Mass.

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BENEFICIARY FUNDS.

Various other bequests and donations to the College have from time to time been made, the income of which is appropriated for the aid of deserving students in narrow circumstances. The annual amount thus appropriated is about two thousand dollars, which has usually been distributed in gratuities ranging from twenty-five to seventy-five dollars. Among these bequests is "The Munroe Fund" of fifteen thousand dollars, of which ten thousand one hundred and forty dollars have now been received by the College; in the bestowment of the income of this fund preference is to be given to natives, or children of citizens, of Concord, Mass.

Applications for aid from the Beneficiary Fund should be addressed to the Dean, and must be presented to him on or before the *last Wednesday in May*, by the student's parent or guardian, or by the student himself, if of age. The application should state particularly the circumstances of the case, with the reasons for asking aid.

LOAN FUND.

In addition to the Beneficiary Funds above mentioned, there is a Loan Fund, the interest of which, amounting annually to about twenty-five hundred dollars, is lent to meritorious students in the Sophomore, Junior, and Senior classes, in sums ranging from forty to one hundred dollars. This fund is under the control of a Board of Trustees, in Boston.

The applications for the Loan Fund should be left with the Dean as early as *the first day of December*.

The Trustees of the Fund request applicants for loans to observe the following rules: —

"1. To address their applications to the Treasurer of the Loan Fund, George Wigglesworth, Esq., Boston, and give them to the Dean.

"2. To state the amount they wish to borrow.

"3. To set forth their circumstances fully, as they would do on making application to an individual for like aid.

"4. To state what aid they have received, or expect to receive, from the College.

"5. If an applicant is under twenty-one years of age, his application must be accompanied by the written approval of his parent or guardian."

MONITORSHIPS, &c.

Besides the foregoing provisions for the aid of meritorious students, the various monitorships, &c., amount to about eight hundred dollars a year; which may be considered an addition, to that extent, to the beneficiary means of the College.

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EXPENSES.

The following table exhibits four scales of annual expenditure, the expenses of the long vacation not being included: —

	Least.	Economical.	Moderate.	Very liberal.
Tuition	$150	$150	$150	$150
Books and Stationery	28	35	45	61
Clothing	70	120	150	300
Room	22	30	100	175
Furniture (annual average)	10	15	25	50
Board	133	152	152	304
Fuel and light	11	15	30	45
Washing	15	20	40	50
Societies and subscription to sports (annual average)			35	50
Servant				25
Sundries	45	55	85	150
Total	$484	$592	$812	$1360

For certain laboratory courses additional fees are required for materials, reagents, and the use and breakage of apparatus.

Members of any department of the University can board at cost by joining the Association which uses the great dining-hall of Memorial Hall. The cost of board to the members of this association is expected not to exceed $4.25 a week. The Hall opens on the last Wednesday in September.

TUITION-FEES OF SPECIAL STUDENTS.

The tuition-fees of special students are: —

For any laboratory course, alone or with other courses, $150 a year.

For certain laboratory courses additional fees are required for materials, reagents, use and breakage of apparatus.

For any elective full course, $45; for a half-course, $25 — a year.

In all other cases the fees will be computed at the rate of $15 for an hour a week of instruction during the academic year up to $150. But in no case shall the tuition-fee be less than $30 or more than $150 a year.

Any student who attends a course of instruction for only a part of the year must pay the full year's fee for that course; except that a student who is liable for the fee of $150 a year is entitled to the same remissions as undergraduates.

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BONDS.

Every *Undergraduate* must file a bond with the Bursar in the sum of $400, signed by two bondsmen, one of whom must be a citizen of the United States, as security for the payment of College bills; or he may deposit with the Bursar $400 in money, or in United States bonds, for the same purpose; or he may deposit $50 as security and pay his tuition fees in advance as follows: — one third on or before October 1, one third on or before Jannary 1, and one third on or before April 1. Any student who takes advantage of the last rule must pay in advance the full year's rent of any College room which may be assigned to him, and if he boards at Memorial Hall must make a deposit at the rate of $5 a week in advance.

The above rules apply also to *Special Students*, except that $200 is the amount of bond or deposit required of a special student who neither occupies a College room nor boards at Memorial Hall.

No officer or student of the University will be accepted as a bondsman.

COLLEGE BILLS.

The term-bills are issued December 22, March 22, and one week before Commencement, and are to be paid respectively on or before January 12, April 12, and October 10; but the third bills of candidates for degrees must be paid at least one day before Commencement. When a student severs his connection with the College his whole bill becomes payable at once.

The fee for instruction is $150 a year, from which deductions will be made as follows: for absence of three consecutive months, $30; for absence during the whole year, not including the mid-year and final examinations, or either of them, $100. A student who claims a deduction must present at the Bursar's office a certificate from the Secretary as to the fact and duration of his absence. In order to obtain such a certificate he must have given prompt notice of his intended absence in accordance with the regulations of the Faculty.

A student who joins the College after the beginning of the academic year will be charged for instruction from the beginning of the third in which he joins. One who leaves during the year will be charged for instruction only to the end of the third in which he leaves, if before that time he gives written notice of his withdrawal to the Secretary; otherwise he will be charged to the end of the third in which such written notice is given. The first third begins at the beginning of the academic year and ends December 31. The second third begins January 1 and ends March 31. The last third begins April 1 and ends at Commencement.

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Additional fees are charged to those who take laboratory courses for materials, reagents, apparatus, etc.

A fee of $3 is charged for the second and each subsequent examination for removing a condition.

ASSIGNMENT OF COLLEGE ROOMS FOR 1888–89.

Students living in College buildings, who intend to be students in any Cambridge department of the University during the academic year 1888–89, and wish to engage for that year the rooms which they now occupy, must sign new room-agreements and leave them at the Bursar's office between March 22 and March 31 inclusive.

A list of all the College rooms not engaged for 1888–89, except rooms in Wadsworth House and a few rooms in Divinity Hall, with blank forms of application, will be ready for delivery at the Bursar's office April 5. Applications for these rooms may be made on or before May 3 by Undergraduates and Special Students in Harvard College, Students in the Lawrence Scientific School, Graduates of Harvard College who intend to be students in any Cambridge department of the University during 1888–89, and by those who intend to enter Harvard College as Undergraduates in the summer of 1888. But rooms in Holworthy Hall will be assigned only to applicants who are members of the classes of 1889, 1890, or 1891 in the College. Applications which are not made on the printed blanks, and applications from those who have already engaged College rooms for 1888–89, will not be considered. The assignment of rooms will be made by lot May 4, and the result of the allotment will be announced May 5.

Lists of the rooms to be let May 4, descriptive lists of rooms, blank applications and bonds will be sent after April 5 to those intending to enter the College in the summer of 1888 who send their names and addresses to the Bursar for that purpose. The application will contain a certificate to be signed by the instructor of the applicant stating that the applicant intends to enter the College as an Undergraduate in the summer of 1888, and specifying the examinations (June or September) at which he will apply for admission. The bond for $300 must be executed by two sufficient bondsmen and will hold them for the full year's rent of any one of the rooms applied for which may be assigned to the applicant between the date of the execution of the bond and the fifth day of October, 1888, unless the applicant is rejected at the June examinations without permission to take the examinations in September; and in that case the bondsmen will be held for one quarter of the full year's rent. But the bondsmen will not be held for any payment of rent if the Bursar lets the room to some other member of the University in accordance with the established rules.

Every student to whom a room is assigned, except any applicant for admission who is rejected at the June examinations without permission to

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take the examinations in September, will be held responsible for the full year's rent thereof, and all charges for gas and damages, unless, before October 1, 1888, the room is let at his request to some other student in accordance with the established rules; or unless, being a member of the class of 1889, of 1890, or of 1891, in the College, he permanently severs his connection with the University, obtains a leave of absence for the whole year 1888–89, or is suspended for the whole of that year, and gives written notice to the Bursar before September 1, 1888, that he desires to cancel his room-agreement. When one of two room-mates cancels his room-agreement under the preceding provision, the other room-mate may secure the room by at once signing a new room-agreement and leaving it at the Bursar's office; but unless he does so, the Bursar will be at liberty to assign the room to other tenants.

Students who have no College rooms for 1888–89 and wish to obtain rooms which may be unengaged May 9, or which may become vacant at any time after that date, may after May 4 file applications at the Bursar's office, specifying the conditions as to buildings, floors, exposure, rent, &c. which they desire to have met and containing agreements to take any rooms which may be assigned to them which fulfil the specified conditions. These applications will remain in force until such dates as the applicants may specify therein, and rooms will be assigned upon them by lot. Notice of rooms to be assigned may be put upon the bulletin board if the Bursar considers it advisable.

The Bursar may cancel the assignment of a room to one whose connection with the University as a student is terminated; or to one intending to enter College as an undergraduate, who does not pass the admission examination or, having passed the examination, does not join his class before October 1, 1888; or to any other person who does not register as a student in some Cambridge department of the University before October 1, 1888.

The right to occupy a College room is given only to the student to whom the room is assigned and to his room-mate. Neither transfers nor exchanges of rooms are allowed. Not more than two students are allowed to occupy any College room; and not more than one to occupy any room in Divinity Hall or on the North side of Grays Hall. Only the constant use of a room by night as well as by day will be regarded as occupation thereof. All persons who occupy College rooms are subject to the regulations of the Parietal Committee. Persons not connected with the University are not allowed to occupy College rooms. Tenants who desire to employ any one to make fires, black boots, &c., must arrange therefor with the janitors of the buildings in which they live.

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PRICES OF COLLEGE ROOMS. — 1888–89.

In each case the price is for the whole room from the beginning of the Academic Year until the next Commencement, and includes the daily care of the room.

$25. College House, Nos. 13, 35.

$35. Divinity Hall, No. 14.

$40. Divinity Hall, Nos. 6, 10.

$44. Hollis and Stoughton, Nos. 1, 2, 3, 4, 18, 19, 20.

$45. College House, Nos. 57 and 58; Divinity Hall, Nos. 4, 12.

$50. College House, Nos. 22, 44, 66; Divinity Hall, Nos. 2, 3, 11.

$55. Divinity Hall, No. 1.

$56. Hollis and Stoughton, Nos. 13, 14, 16.

$60. Hollis and Stoughton, Nos. 5, 6, 8, 9, 10, 12, 17, 22, 23, 24, 26, 27, 28; College House, Nos. 3, 4, 6, 7, 8, 9, 10, 15, 16, 18, 19, 20, 25, 26, 27, 28, 30, 31, 32, 37, 38, 39, 40, 41, 42, 46, 48, 50, 52, 54, 60, 62, 64, 70; Divinity Hall, Nos. 20, 22, 24, 34, 38; Grays, Nos. 33, 35.

$65. Divinity Hall, Nos. 18, 19, 21, 23, 26, 28, 32, 33, 37, 40, 42; Hollis and Stoughton, Nos. 29, 32.

$70. College House, Nos. 11, 12, 33, 34, 47, 49, 51, 53, 59, 61, 63, 67, 68, 69; Divinity Hall, Nos. 17, 25, 31, 39.

$75. Hollis and Stoughton, Nos. 11, 15, 25, 30, 31; College House, Nos. 1, 2, 21, 23, 24, 43, 45, 55, 65; Divinity Hall, Nos. 16, 27, 30, 41; Grays, Nos. 3, 13, 15, 17, 19, 34, 37, 49, 51; Weld, Nos. 25, 26, 52, 53.

$80. Divinity Hall, Nos. 15, 29; Holyoke, No. 39.

$100. Grays, Nos. 1, 7, 11, 14, 18, 21, 23, 25, 27, 29, 31, 36, 39, 41, 45; Weld, Nos. 24, 27, 51, 54; Matthews, Nos. 27, 28, 57, 58; Wadsworth House, Nos. 9 and 10, 11 and 12; College House, No. 29; Holyoke, Nos. 28, 45.

$125. Grays, Nos. 2, 9, 16, 22, 26, 30, 40, 47, 50, 52; Matthews, Nos. 25, 26, 29, 30, 55, 56, 59, 60; Holyoke, Nos. 6, 17; Thayer, Nos. 17, 18, 19, 20, 23, 24, 41, 42, 47, 48, 65, 66.

$150. Grays, Nos. 4, 6, 8, 10, 12, 20, 28, 32, 38, 42, 44, 46, 48; Holyoke, Nos. 2, 3, 11, 40, 44, 46; Matthews, No. 6; Thayer, Nos. 1, 2, 3, 4, 13, 14, 15, 16, 25, 26, 30, 35, 36, 43, 44, 45, 46, 49, 50, 53, 59, 60, 63, 64, 67, 68.

$175. Thayer, Nos. 5, 6, 8, 9, 10, 11, 12, 21, 22, 31, 32, 37, 38, 39, 40, 51, 52, 55, 56, 57, 58, 61, 62; Weld, Nos. 3, 5, 8, 13, 14, 19, 20, 30, 32, 34, 35, 40, 41, 46, 47; Holyoke, Nos. 12, 29, 34.

$200. Thayer, Nos. 27, 28, 33, 34; Matthews, Nos. 3, 4, 10, 16, 22, 33, 34, 46, 52; Holyoke, Nos. 18, 22, 23, 37, 41, 42, 43, 47, 48; Wadsworth House, Nos. 1 and 2, 3 and 4, 5 and 6, 7 and 8, 13; Weld, No. 1.

$225. Weld, Nos. 4, 6, 9, 12, 15, 18, 21, 22, 23, 31, 33, 39, 42, 45, 48, 49, 50; Matthews, Nos. 5, 9, 15, 19, 20, 21, 39, 45, 49, 50, 51; Holyoke, Nos. 1, 26, 30, 31, 32, 35, 36, 50.

$250. Holworthy, Nos. 1, 2, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24; Weld, Nos. 2, 10, 11, 16, 17, 28, 29, 37, 38, 43, 44; Matthews, Nos. 1, 2, 8, 13, 14, 23, 24, 31, 32, 35, 36, 37, 38, 43, 44; Holyoke, Nos. 4, 9, 10, 13, 14, 15, 20, 21, 24, 25, 38, 49; Wadsworth House, No. 14.

$275. Matthews, Nos. 53, 54; Holyoke, Nos. 8, 19.

$300. Matthews, Nos. 11, 12, 17, 18, 41, 42, 47, 48; Holyoke, Nos. 5, 16, 27.

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THE DIVINITY SCHOOL.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*
CHARLES C. EVERETT, D.D., *Dean, and Bussey Professor of Theology.*
JOSEPH HENRY THAYER, D.D., *Bussey Professor of New Testament Criticism and Interpretation.*
CRAWFORD H. TOY, LL.D., *Hancock Professor of Hebrew and other Oriental Languages, and Dexter Lecturer on Biblical Literature.*
FRANCIS G. PEABODY, D.D., *Plummer Professor of Christian Morals.*
—— ——, *Parkman Professor of Theology.*
EPHRAIM EMERTON, PH.D., *Winn Professor of Ecclesiastical History.*
DAVID GORDON LYON, PH.D., *Hollis Professor of Divinity.*

JAMES RICHARD JEWETT, A.B., *Instructor in Hebrew and other Oriental Languages.*
EDWARD NAPOLEON KIRBY, *Instructor in Elocution.*

STUDENTS.

RESIDENT GRADUATES.

NAME.	RESIDENCE.	ROOM.
Greeley, Clarence DeVere, A.B. (*Washburn Coll.*) 1883, D.B. (*Yale Univ.*) 1886, *Williams Fellow,*	*Clymer, N. Y.*	4 Divinity Ave
Riale, Franklin Neiman, A.M. (*Univ. of Wooster*) 1884, D.B. (*Western Theol. Sem.*) 1886, *Williams Fellow,*	*York, Nebraska,*	D. 37.
Whitman, Henry Arthur, A.B. (*Univ. of Georgia*) 1868, A.M. (*Ibid.*) 1870, (*So. Bapt. Theol. Sem.*) 1878, A.M. 1887,	*Cambridge,*	[St 727 Cambridge

SENIOR CLASS.

Greenman, Walter Folger, A.B. 1885,	*Chelsea,*	H. 9.
Leary, Louis Calvert, S.B. (*Boston Univ.*) 1885,	*Cambridge,*	D. 28.

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Smith, Ernest Charles, A.B. (*Bowdoin Coll.*) 1884,	*Augusta, Me.*	D. 15.

MIDDLE CLASS.

Frothingham, Paul Revere, A.B. 1886,	*Jamaica Plain,*	D. 27.
Harvey, Leon Addison, A.B. (*Antioch Coll.*) 1886,	*Corry, Pa.*	D. 12.

JUNIOR CLASS.

Bronson, Walter Cochrane, A.B. (*Brown Univ.*) 1887,	*Cambridge,*	D. 8.
Cole, William Roswell, A.B. (*Johns Hopkins Univ.*) 1887,	*Mt. Washington Md.*	D. 29.
Henshaw, Henry Arnold, A.B. 1886, A.M. 1887,	*Montvale,*	Montvale.
Luther, Hermon Lillie, A.B. (*Racine Coll.*) 1881, A.M. (*Ibid.*) 1884,	*Brooklyn, Conn.*	21 Gerry St.
Perkins, John Carroll, A.B. (*Bates Coll.*) 1882, A.M. (*Ibid.*) 1885,	*Boston,*	D. 16.
Shippen, Eugene Rodman, A.B. 1887,	*Washington, D. C.*	D. 21.
Wilbur, Earl Morse, A.B. (*Univ. of Vermont*) 1886,	*Burlington, Vt.*	D. 31.

SPECIAL STUDENT.

Latimer, George Dimmick,	*Chicago, Ill.*	Felton Building 17.

The Constitution of this School prescribes that "every encouragement be given to the serious, impartial, and unbiassed investigation of Christian truth, and that no assent to the peculiarities of any denomination of Christians shall be required either of the instructors or students."

COURSES OF INSTRUCTION.

OLD TESTAMENT.

1. Hebrew. Harper's Hebrew Method and Manual. Harper's Elements of Hebrew. Explanation of parts of the Pentateuch, Historical Books and Psalms. *Three times a week.* MR. JEWETT.
2. Hebrew (Second Course). Interpretation of parts of the Prophets and Poetical Books. *Twice a week.* Professor LYON.
3. Jewish Aramaic. Kautzsch's Grammar. Brown's Aramaic Method. Interpretation of selections from Daniel, Ezra, and the Targums. *Twice a week, during the second half-year.* MR. JEWETT.
4. History of Israel, political and social. *Twice a week.* Professor LYON.

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[5. History of the Religion of Israel. Schultz's Alttestamentliche Theologie. *Twice a week.* Professor Toy.]
Omitted in 1887–88.

[6. Old Testament Introduction. *Twice a week.* Professor Toy.]
Omitted in 1887–88.

Other courses in the Semitic languages are given; namely, two in Arabic, each twice a week, and one in Ethiopic, once a week, by Mr. Jewett, *and two in Assyrian, each twice a week, by Professor* Lyon.

The Semitic Seminary meets on the first and third Mondays of every month except June. At each meeting a short paper is read by a student or an instructor, and its subject-matter discussed; in this way the class-work is brought into practical use, and various matters studied which do not come up in the class-instruction.

New Testament.

1. New Testament Times: — the political, social, moral, and religious Condition of the World when Christ appeared. *Twice a week, during the first half-year.* Professor Thayer.

2. Outline lectures on Theological Encyclopaedia and Literature; the Characteristics of the New Testament Greek; the Septuagint; Textual Criticism; Hermeneutics; the Life of Christ. Study of the Gospels. Essays and Criticisms. *Twice a week.* Professor Thayer.

3. New Testament Introduction: — the Origin, Contents, and History of the New Testament Writings, together with the Formation of the Canon. *Twice a week, during the second half-year.* Professor Thayer.

4. Outline lectures on the Life of Paul; Study of the Epistles; Essays and Criticisms. *Twice a week.* Professor Thayer.

5. Lectures on our English Bible and its recent Revision. Lectures on topics in Biblical Theology. Exposition of Difficult Texts. Essays and Criticisms. *Twice a week.* Professor Thayer.

[6. Biblical Interpretation: — its History, its Methods, its Principles and their Application (to New Testament Passages of historical, prophetical, ethical, doctrinal, import). *Twice a week, during half the year.* Professor Thayer.]
Omitted in 1887–88. Will probably be given in 1888–89.

7. Classical Aramaic (Syriac). Grammars of Nöldeke and Hutchinson-Uhlemann. Roediger's Chrestomathia Syriaca. Reading of selections

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from the Peshitto Gospels, the Chronicles of Barhebräus and the hymns of Efrem. *Twice a week, during first half-year.* Professor LYON.

The New Testament Seminary meets on the second and fourth Mondays of every month for the reading and criticising of essays by the students upon topics relating to the New Testament.

CHURCH HISTORY.

1. The Conflict of Christianity with Paganism. — Origin and Development of the Roman Primacy to its Alliance with the Holy Roman Empire, A.D. 800. *Twice a week.* Professor EMERTON.
Will probably be omitted in 1888–89.

2. The Mediaeval Church, with especial reference to its effect upon public life and upon intellectual and social progress. *Twice a week.* Professor EMERTON.

[3. The Era of the Reformation in Europe from the rise of Italian Humanism to the close of the Council of Trent, 1350–1563. *Twice a week.* Professor EMERTON.]
Omitted in 1887–88. Will probably be given in 1888–89.

4. History of Christian Doctrines. *Twice a week.* Professor EMERTON.

5. Advanced Study and Research. Subject for 1887–88: Topics in Church History in connection with Courses 1 and 2. Professor EMERTON.

COMPARATIVE RELIGION.

Studies in the Comparative History of Religions, particularly the Vedic Religion, the Hindu Philosophies, Buddhism, Mazdaism, and the Chinese Religions. Professor EVERETT.

ETHICS.

The Practical Ethics of Social Reform. — An examination of the problems of Charity, Temperance, Labor, Divorce, Prisons, the Indian question, etc. — Lectures, Essays, and the study of Institutions. *Twice a week.* Professor PEABODY.

THEOLOGY.

1. The Philosophy of Religion. — An Introduction to the study of Theology. Lectures and Essays. *Once a week.* Professor PEABODY.
Omitted in 1887–88.

2. Systematic Theology begun: The Psychological basis of Religious Faith. *Once a week.* Professor EVERETT.

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3. Systematic Theology continued: The Content of Christian Faith. *Three times a week.* Professor EVERETT.

HOMILETICS AND PASTORAL CARE.

1. The Structure and Analysis of Sermons. *Once a week during the first half-year.* Professor PEABODY.

2. Each student writes six sermons during the year, three of which are preached before the two upper classes and criticised by students and instructor; the rest are criticised privately, both as to composition and delivery, in preparation for the public preaching named below. Professor PEABODY.

[3. Liturgics and the History of Christian Worship; its prayers, its hymns, and its preaching. *Once a week.* Professor PEABODY.]

Omitted in 1887–88.

4. Pastoral Care and the Conduct of Christian Worship. Lectures. *Once a week, during the second half-year.* Professor PEABODY.

ELOCUTION.

Class instruction once a week. Mr. KIRBY.

Private instruction for members of the Senior Class. Mr. KIRBY.

GENERAL EXERCISES.

Preaching by students in the Chapel of the School, open to the public. *Once a week.*

Meetings for Debate. *Once in two weeks.*

Meetings for Religious Conference, conducted by students, alternating with the above. *Once in two weeks.*

Morning Prayers, conducted by professors and students.

SPECIAL LECTURES FOR 1887–88.

A course of six lectures will be given by officers of the University who are not teachers in the Divinity School. Lectures are expected as follows: —

Ministers as seen by a Layman: HENRY LEE, A.M., of the Board of Overseers.

The Health of Professional Men: FRANCIS MINOT, A.M., M.D., Professor of the Theory and Practice of Physic.

Some American Social Problems: CHARLES ELIOT NORTON, LL.D., Professor of the History of Art.

The Relation of Law to the Supernatural: JAMES BRADLEY THAYER, A.B., LL.B., Professor of Law.

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Intimations of Immortality in the Sonnets of Shakspere: GEORGE HERBERT PALMER, A.M., Professor of Philosophy.

Harvard's Contributions to Astronomy: EDWARD CHARLES PICKERING, A.M., S.B., Professor of Astronomy, and Director of the Observatory.

INSTRUCTION IN OTHER DEPARTMENTS OF THE UNIVERSITY.

Students of this School in regular standing are entitled to attend, without extra charge, any exercises in the College, or other departments of the University, for which they may show themselves fitted; except exercises in the special Laboratories. This provision does not apply to Special Students unless they pay fees varying according to the amount of instruction taken.

The Hemenway Gymnasium is also open to members of this School, without extra charge.

LIBRARY.

Students have access to the Divinity School Library, which consists of over 17,000 volumes and 2000 pamphlets, to the College Library, which consists of 248,000 volumes and is rich in theological literature, and, for consultation, to the other Departmental Libraries containing over 50,000 volumes.

There is connected with the Divinity School Library a room containing books of reference, to which students have admission at all hours.

A new and commodious Library Building has just been erected and will be occupied this year for the first time.

THE DEGREE OF BACHELOR OF DIVINITY.

Students properly qualified, who have been connected with the School for not less than one year, and have passed satisfactorily examinations on studies representing thirty hours a week of class work, and on the German language, may receive the degree of Bachelor of Divinity. Studies representing more than thirteen hours of class work, will, however, not be accepted for this purpose in any one year, except in the case of candidates for admission to advanced standing. As more courses are presented than are required for the degree, a certain amount of election will be allowed. Candidates must submit to the Faculty for its approval a list of the studies which they propose to offer.

Applicants for the degree of Bachelor of Divinity must present to the Faculty a Theological Thesis at least two weeks before Commencement, which is the last Wednesday in June.

Although the degree of Bachelor of Divinity can be gained in three years, students are advised to add a fourth year to their course. This will allow all the studies of the School, and a larger number in other departments of the University to be taken.

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It is recommended that the German required for the degree be taken in the Junior year, as a knowledge of this language will be found of great service during the remainder of the course.

THE DEGREE OF MASTER OF ARTS.

Bachelors of Arts who take the degree of Bachelor of Divinity, will receive with this the degree of *Master of Arts*, if they have pursued the study of Theology at this School for *three* years and have passed with high credit all required examinations; provided that, if the Bachelor's degree was not received at Harvard College, the Faculty of Harvard College shall be satisfied that the course of study for which this degree was received was equal to that for which it is here given; or that any deficiency in this respect shall have been supplied by subsequent study exclusive of that which is offered for the degree of Bachelor of Divinity.

Bachelors of Arts, properly qualified, who do not intend to apply for the degree of Bachelor of Divinity, may receive the degree of Master of Arts, after pursuing for one year at the School a course of theological study accepted as suitable and sufficient for the purpose, and passing with high credit an examination on the same.

CERTIFICATES FOR SPECIAL STUDENTS.

Special students who have passed a satisfactory examination in one or more subjects, are entitled to a certificate, stating the length of time they have been members of the School, and specifying the subjects in which they have been examined.

ADMISSION.

Testimonials. Candidates for admission must furnish testimonials of character and scholarship.

Resident Graduates. Graduates of Theological Schools will be admitted as Resident Graduates to all the privileges of the School, and may, with the approval of the Faculty, pursue such studies as they may select in other departments of the University, it being understood that the greater part of the work is done in relation with the Divinity School.

Candidates for the degree. Candidates for the degree of Bachelor of Divinity must have received the degree of Bachelor of Arts, or must satisfy the Faculty that their education has been equal to that of college graduates.

Graduates of other Theological Schools who are in other respects properly qualified, and bring evidence of high standing in the schools from which they have graduated, may be admitted to the Senior Class without

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examination, and thus become candidates for the degree of Bachelor of Divinity.

Advanced Standing. Candidates may be admitted to advanced standing upon satisfactory evidence by examination.

Special Students. Persons not candidates for the degree of Bachelor of Divinity may be admitted to the School as Special Students on giving satisfactory evidence of such proficiency in the Greek and Latin classics as is ordinarily required for admission to a New England college, and in the New Testament.

SCHOLARSHIPS AND OTHER PECUNIARY AID.

With the single exception named in connection with the Williams Fund (that the recipient of that fund must be a Protestant), the pecuniary aid furnished by the School is given without regard to denominational differences, but only to students whose scholarship and promise of usefulness justify such help. No student whose examination record is below seventy-five per cent can receive aid.

The funds applicable to this purpose are as follows: —

1. Ten Scholarships established in the School, varying in their annual income from one hundred and twenty-five to one hundred and seventy-five dollars. They are assigned by the President and Fellows on the recommendation of the Faculty.

These scholarships are: —

The CHAPMAN SCHOLARSHIP, founded by the Rev. George Chapman, with an income of one hundred and forty dollars.

TWO CARY SCHOLARSHIPS, founded by Thomas Cary, Esq., with an income of one hundred and seventy-five dollars each.

FOUR SCHOLARSHIPS ON THE JACKSON FOUNDATION, founded by Miss Sarah Jackson, with an income of one hundred and sixty dollars each.

The CLAPP SCHOLARSHIP, founded by Joshua Clapp, Esq., with an income of one hundred and twenty-five dollars.

The KENDALL SCHOLARSHIP, founded on the donation of Miss Nancy Kendall, with an income of one hundred and forty dollars.

The JONAS H. KENDALL SCHOLARSHIP, founded by Jonas H. Kendall, Esq., with an income of one hundred and forty dollars.

2. The income of the bequest of Abner W. Buttrick, Esq., of Lowell, is awarded by the President and Fellows "to such deserving young men as they shall select, to aid them in preparing and educating themselves for the ministry of the Gospel." The annual income of this bequest is about five hundred and fifty dollars.

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3. The income of the William Pomroy Fund, amounting to about fifty-seven dollars.

4. The income of the John Foster Fund, amounting to about one hundred and seventy dollars. This is available once in three years.

5. The income of the Hopkins Fund is awarded by a Board of Trustees to six students, who most need aid, who must have received the degree of A.B., and have given evidence of diligent and successful study. The shares will probably amount to about three hundred and fifteen dollars each.

6. The income of the Williams Fund is awarded, by the Society for promoting Theological Education, to students recommended by the Faculty, who comply with the requisitions of that Society. According to the terms of this bequest, the income is to be given to "such indigent students of Theology, resident in Cambridge, as shall be preparing themselves for the ministry, and shall be deemed most meritorious and worthy of assistance;" and "no student shall be debarred of this charity by reason of not having had a degree at a college, or being educated at any other college, or entertaining any peculiar modes of faith, it being always understood that he must be a Protestant." The income of the Williams Fund amounts to about four thousand dollars.

The incomes from these various sources may be so combined that a student who needs and merits such help may receive from $275 to $325.

7. For the year 1888–89 two Fellowships of $500 each are offered to graduates of this or any other Theological School who purpose to enter the Christian ministry. These Fellowships are intended to encourage advanced theological work of a high order. Applications, accompanied by recommendations and specimens of work, must be made to the Dean as early as June 1st, 1888.

EXPENSES AND BONDS.

The average expenses for the year are: —

For rent and care of room	$50.00
For tuition	50.00
For board, 38 weeks	171.00
For fuel	25.00
	$296.00

To which are to be added the expenses of washing and lights.

The price of rooms varies, according to their location and desirableness, from $35 to $75 per year. It is probable that the price of board at Memorial Hall will not exceed $4.25 a week.

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For rooms in Divinity Hall application should be made to Allen Danforth, Bursar.

This application should be made as early as possible in order that a choice may be secured.

The term-bills are issued December 22, March 22, and one week before Commencement, and are to be paid respectively on or before January 12, April 12, and October 10; but the third bills of candidates for degrees must be paid at least one day before Commencement. Each bill will contain one third of the annual charges. When a student severs his connection with the School, his whole bill becomes payable at once.

The fee for instruction is $50 a year. A student who joins the Divinity School after the beginning of the academic year will be charged for instruction from the beginning of the third in which he joins. One who leaves during the year will be charged for instruction only to the end of the third in which he leaves, if before that time he gives written notice of his withdrawal to the Dean; otherwise he will be charged for instruction to the end of the third in which such written notice is given. The first third begins at the beginning of the academic year and ends December 31. The second third begins January 1 and ends March 31. The last third begins April 1 and ends at Commencement.

Every student must file a bond with the Bursar in the sum of $200, signed by two bondsmen, one of whom must be a citizen of the United States, as security for the payment of his dues to the University; or he may deposit with the Bursar $200 in money or in United States bonds, for the same purpose; or he may deposit $50 as security, and pay his tuition fees in advance as follows: — one third on or before October 1, one third on or before January 1, and one third on or before April 1. Any student who takes advantage of the last rule must pay in advance the full year's rent of any College room which may be assigned to him, and, if he boards at Memorial Hall, must make a deposit at the rate of $5 a week in advance. Interest is not allowed on deposits. No officer or student of the University will be accepted as a bondsman.

Further information will be furnished, if desired, on application to the Dean.

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TABULAR VIEW OF THE EXERCISES IN HARVARD DIVINITY SCHOOL. 1887–88.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9–10	Theology 3.	Church History 1. Theology 2.	New Testament 1.[a] New Testament 3.[b]	Comparative Religion. Church History 1.	New Testament 1.[a] New Testament 3.[b]	Comparative Religion.
10–11	New Testament 2.	Ethics. Hom. 2 (*priv.crit.*).	Homiletics 1.[a] Pastoral Care.[b]	Ethics.		
11–12		Aramaic. Church History 4.	Theology 3.	Aramaic. Church History 4.	Theology 3.	
12–1	New Testament 4.	New Testament 5.	New Testament 2.	New Testament 4.	New Testament 5.	
2–3	History of Israel.		History of Israel.			
3–4	Hebrew 1. Homiletics 2. (*Appleton Chapel.*)	Hebrew 2. Church History 2.	Hebrew 1.	Hebrew 2. Church History 2.	Hebrew 1.	

[a] First half-year. [b] Second half-year.

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THE LAW SCHOOL.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*
CHRISTOPHER C. LANGDELL, LL.D., *Dane Professor of Law, and Dean.*
JAMES B. THAYER, LL.B., *Professor of Law.*
JOHN C. GRAY, A.M., *Royall Professor of Law.*
JAMES BARR AMES, A.M., *Bussey Professor of Law.*
WILLIAM A. KEENER, LL.B., *Assistant Professor of Law.*

WILLIAM SCHOFIELD, LL.B., *Instructor in Torts.*

JOHN H. ARNOLD, *Librarian.*

STUDENTS.

Resident Graduates.

NAME.	RESIDENCE.	ROOM.
Hatch, Arthur Gillespie, A.B. 1884, A.M., LL.B. 1887,	*Cambridge*,	Read's Block 4.
Rapley, Edward Everett, A.B. (*Md. Agric. Coll.*) 1883, LL.B. 1887,	*Washington, D. C.*	717 Cambridge St.

Third Year.

Aldrich, Herbert Griffin, A.B. (*Hamilton Coll.*) 1884,	*Gouverneur, N. Y.*	34 Wendell St.
Allen, Arthur Lincoln, A.B. 1885,	*Arlington*,	Arlington.
Bancroft, Jacob, A.B. 1884,	*Cambridge*,	380 Harvard St.
Boyden, Roland William, A.B. 1885,	*Beverly*,	T. 10.
Brice, Wilson Bird, A.B. (*Nat. Normal Univ.*) 1882,	*Greenfield, O.*	27 Irving St.
Brooks, Edgar Gerson, S.B. (*Cornell Univ.*) 1885,	*Salt Lake City, Utah*,	713 Cambridge St.
Campbell, James Alexander, A.B. (*Yale Univ.*) 1882,	*St. Louis, Mo.*	2 Holmes Pl.

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Cowles, William Hamilton, A.B. (*Oberlin Coll.*) 1882, A.M. (*Ibid.*) 1885,	*Topeka, Kan.*	14 Mellen St.
Cushing, Grafton Dulany, A.B. 1885	*Boston,*	10 Appian Way.
Darling, Frederick Homer, A.B. 1884,	*North Cambridge,*	105 Lambert Ave.
Davis, Bancroft Gherardi, A.B. 1885,	*Cambridge,*	H. 29.
Gorham, Robert Stetson, A.B. 1885,	*Northampton,*	S. 30.
Hobbs, Marland Cogswell, A.B. 1885,	*Brookline,*	C. 5.
Hoen, Ernest, Jr.	*Baltimore, Md.*	138 Mt. Auburn St.
Johnson, Homer Hosea, A.B. (*Oberlin Coll.*) 1885,	*New London, O.*	C. 54. [Somerville.
Kaan, Frank Warton, A.B. 1883,	*Somerville,*	12 Pleasant Ave.,
King, Charles Carroll, A.B. 1885,	*Montpelier, Vt.*	H. 15.
Lee, Blewett Harrison, S.B. (*Agric. and Mechan. Coll. of Miss.*) 1883,	*Columbus, Miss.*	C. 54.
McInnes, William Morrow, A.B. 1885,	*Roxbury,*	S. 30.
Newhall, John Breed, A.B. 1885,	*Lynn,*	H. 9.
Norton, Eliot, A.B. 1885,	*Cambridge,*	10 Appian Way.
Osborn, William Church, A.B. (*Princeton Coll.*) 1883,	*Garrison's, N. Y.*	4 Mercer Circle.
Saunders, Charles Robertson, A.B. 1884,	*Cambridge,*	H. 23.
Simes, Robert Fields, A.B. 1885,	*Portsmouth, N. H.*	10 Appian Way.
Storrow, James Jackson, Jr., A.B. 1885,	*Boston,*	10 Appian Way.
Trask, William Ropes, A.B. 1885,	*Cambridge,*	10 Appian Way.
Williams, Henry Morland, A.B. 1885,	*Boston,*	Wadsw'th House 11.
Williams, William, A.B. (*Yale Univ.*) 1884,	*New London, Conn.,*	Little's Block 7.
Williston, Samuel, A.B. 1882,	*Cambridge,*	15 Berkeley St.
Wister, Owen, A.B. 1882,	*Philadelphia, Pa.,*	736 Cambridge St.

SECOND YEAR.

Abbot, Everett Vergnies, A.B. 1886,	*Cambridge,*	S. 20.
Adams, George Caspar, A.B. 1886,	*Quincy,*	17 Dunster St.
Ayars, Henry Morton, A.B. 1886,	*Cleveland, O.*	C. 65.

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Bacon, William Francis, A.B. 1885,	*Newton*,	467 Broadway.
Bailey, Stephen Arnold, A.B. 1885,	*Trenton, Mo.*	13 Bow St.
Baldwin, Thomas Tileston, A.B. 1886,	*Jamaica Plain*,	M. 43.
Bartlett, Stephen Smith, A.B. 1885,	*Boston*,	291 Commonwealth [Ave., Boston.
Blodgett, Edward Everett, A.B. 1887,	*Boston*,	880 Main St.
Boyden, William Cowper, A.B. 1886,	*Sheffield, Ill.*	T. 10.
Brewer, William Dade, Jr., A.B. 1886,	*Boston*,	38 North Ave.
Bronson, Ira Hull, A.B. (*Kansas Normal Coll.*) 1884,	*Cambridge*,	9 Lancaster St.
Castle, Henry Northrup, A.B. (*Oberlin Coll.*) 1883,	*Honolulu, Haw. Ids.*	11 Sumner St.
Conant, Ernest Lee, A.B. 1884,	*Webster*,	M. 40.
Dana, Francis,	*Sunapee, N. H.*	10 Frisbie Pl. [Somerville.
Dickerman, Frank Elliot, A.B. 1886.	*Somerville*,	85 Central St.,
Dolan, William James,	*Roxbury*,	2188 Washington St., [Roxbury.
Ford, George Cook, A.B. (*Adelbert Coll.*) 1884,	*Cleveland, O.*	16 Ash St.
Foster, Arthur Fay,	*Lynn*,	6 Story St.
Frost, Lewis Pierce, A.B. 1886,	*Arlington*,	Arlington.
Fuller, Edward, A.B. (*Colby Univ.*) 1885,	*Skowhegan, Me.*	717 Cambridge St.
Gage, Thomas Hovey, Jr., A.B. 1886,	*Worcester*,	G. 26.
Gleason, Albert Augustus, A.B. 1886	*Milford*,	S. 29.
Grinstead, William Wade,	*Louisville, Ky.*	M. 8.
Hansen, Otto Reinhardt, A.B. 1885,	*Milwaukee, Wis.*	Hilton Block 4.
Kattenhorn, George Henry,	*Cincinnati, O.*	T. 4.
Lapeyre, George Fortuné, A.B. 1886,	*New Orleans, La.*	404 Harvard St.
Ludden, Charles Mandeville, A.B. (*Tufts Coll.*) 1886,	*Canton Point, Me.*	[Cambridgeport. 17 Summer St.,
McAllister, Hall, Jr., A.B. 1886,	*San Francisco, Cal.*	750 Cambridge St.
McCordic, Alfred Edward,	*Grand Rapids, Mich.*	64 Buckingham St.
Merriam, John McKinstry, A.B. 1886,	*So. Framingham*,	C. 5.
Miller, William Horatio, A.B. 1886,	*Cleveland, O.*	C. 65.

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Morgan, Edward Broadbent, A.B. (*Yale Univ.*) 1886,	*Denver, Col.*	410 Harvard St.
Morgan, Samuel Houston,	*Macomb, Ill.*	713 Cambridge St.
Nutter, George Read, A.B. 1885,	*Boston,*	Manter Block 7.
Oxnard, Henry Ernest, A.B. 1886,	*Portland, Me.*	G. 24.
Palmer, Joseph Newell, A.B. 1886,	*Cambridge,*	7 Cleveland St.
Ransom, Paul Carlton, A.B. (*Williams Coll.*) 1886,	*Buffalo, N. Y.*	Hilton Block 33.
Richardson, Charles Franklin, S.B. (*Mass. Inst. of Technol.*) 1886,	*Brooklyn, N. Y.*	H'ke 13.
Ruel, Gerard Godfrey,	*St. John, N. B.*	64 Buckingham St.
Russell, Warren Edward, S.B. (*Amherst Coll.*) 1885,	*Massillon, O.*	16 Ash St.
Sanford, Edward Terry, PH.B. (*Univ. of Tenn.*) 1883, A.B. 1885,	*Knoxville, Tenn.*	Hilton Block 4.
Schroll, Charles Edwin,	*Decatur, Ill.*	13 Kirkland Pl.
Simmons, Charles La Fayette,	*Baldwinsville,*	Baldwinsville.
Smith, Edward Irving, A.B. 1885,	*Lincoln,*	C. 57.
Smith, Osgood, A.B. (*Amherst Coll.*) 1883, A.M. (*Ibid.*) 1886,	*Portland, Me.*	39 Brattle St.
Smith, Samuel Herbert, A.B. 1887,	*Arlington,*	Arlington.
Stephens, Charles Gerard Havens, A.B. 1886,	*Jamestown, N. Y.*	736 Cambridge St.
Strader, Darwin Jefferson,	*Mooers, N. Y.*	45 Trowbridge St.
Swope, Frank Dugan, A.B. (*Hanover Coll.*) 1885,	*Madison, Ind.*	713 Cambridge St.
Waterman, John Anderson, Jr., A.B. (*Bowdoin Coll.*) 1884,	*Gorham, Me.*	Francis Ave.
Wells, Stiles Gannett, A.B. 1886,	*Boston,*	M. 41.
Whitelaw, Edward Abraham,	*Akron, O.*	C. 50.
Williams, William James,	*Boston,*	18 Grove St., Boston.
Winthrop, Grenville Lindall, A.B. 1886,	*New York, N. Y.*	Beck Building 21.
Wright, Edward Clarence, A.B. 1886,	*Cambridge,*	13 Dunster St.

FIRST YEAR.

Alexander, Walter, A.B. 1887,	*St. Charles, Mo.*	Read's Block 24.
Anderson, Chandler Parsons, A.B. (*Yale Univ.*) 1887,	*New York, N. Y.*	746 Cambridge St.
Austin, Walter, A.B. 1887,	*Boston,*	H'ke 18.
Ayer, Charles Fanning, A.B. 1887,	*Lowell,*	H'y 17.

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Bailey, Joseph Whitman, A.B. (*Univ. of New Brunswick*) 1884,	*Fredericton, N. B.*	16 Holyoke St.
Barber, Henry Blanchard, A.B. 1887,	*Meadville, Pa.*	H'y 12.
Bean, Henry Willard, A.B. 1887,	*Jacksonville, Fla.*	H. 27.
Bodley, Edwin Benton, A.B. (*Allegheny Coll.*) 1887,	*Wheeling, W. Va.*	656 Cambridge St.
Bowen, William Jackson, A.B. 1887,	*Davenport, W. T.*	H. 32.
Bradley, John Dow, A.B. 1886,	*Brattleborough, Vt.*	122 Commonwealth [Ave., Boston.
Brechbill, George Willis, A.B. (*Brown Univ.*) 1887,	*Fultonham, O.*	646 Cambridge St.
Buck, Walter Darling,	*Orland, Me.*	713 Cambridge St.
Campbell, Frank Augustine, A.B. (*Mt. St. Mary's Coll.*) 1886,	*Dorchester,*	8 Mt. Vernon St., [Dorchester.
Carrier, Charles Frederic, A.B. 1885,	*Santa Barbara, Cal.*	10 Remington St.
Carter, John Ridgely, A.B. (*Trinity Coll.*) 1883, A.M. (*Ibid.*) 1886,	*Cambridge,*	64 Sparks St.
Chapman, Henry Bardwell, A.B. (*Oberlin Coll.*) 1885,	*E. Cleveland, O.*	27 Irving St.
Child, Samuel Mitchell,	*Temple, N. H.*	C. 6.
Cotter, John Jerome, A.B. 1887,	*Cambridge,*	H. 6.
Crawford, William Randall, A.B. (*Yale Univ.*) 1886,	*Chicago, Ill.*	14 Oxford St.
Crosby, Wilson Gardner, A.B. (*Brown Univ.*) 1883,	*Edgartown,*	467 Broadway.
Cummings, Arthur Mark, A.B. 1887,	*Maplewood,*	W. 35.
Cushing, John Newmarch, Jr. A.B. 1887,	*Newburyport,*	W. 44.
Cushman, Charles Allerton, A.B. 1887,	*Cambridge,*	801 Main St.
Dean, George Cooper,	*Holbrook,*	Holbrook.
Delone, Charles Joseph,	*Hanover, Pa.*	S. 8.
Dresel, Ellis Loring, A.B. 1887,	*Boston,*	W. 32.
Eldred, George,	*Princeton, Ky.*	715 Cambridge St.
Fenety, Harris Gordon, A.B. (*Univ. of New Brunswick*) 1885,	*Fredericton, N. B.*	17 Holyoke St.
Fiske, Edward, A.B. 1887,	*Weston,*	29 Crescent St.
Flagg, Elisha, A.B. 1887,	*Boston,*	147 Boylston St., [Boston.
Fletcher, Jefferson Butler, A.B. 1887,	*New York, N. Y.*	T. 31.

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Frost, Robert Warner, A.B. 1887,	*Brighton*,	M. 54.
Frye. Alexander Everett,	*Hyde Park*,	C. 51.
Furber, George Pope, A.B. 1887,	*Boston*,	T. 54.
Gamble, Thomas Adam, A.B. (*Univ. of Cal.*) 1887,	*San Francisco, Cal.*	714 Cambridge St.
Gardner, Augustus Peabody, A.B. 1886,	*Hamilton*,	9 Pinckney St., Boston.
Gersdorff, Carl August de, A.B. 1887,	*Cambridge*,	1 Garden St.
Giddings, Charles Ingalls, A.B. 1887,	*Beverly*,	M. 12.
Grime, George, A.B. (*Brown Univ.*) 1886,	*Fall River*,	12 Shepard St.
Harper, John Fletcher, A.B. (*Amherst Coll.*) 1887,	*Milwaukee, Wis.*	14 Mellen St.
Higgins, John Joseph,	*Madbury, N. H.*	28 Quincy St.
Holland, John Francis, A.B. 1885,	*Cambridge*,	H. 13.
Howland, Leonard Paul, A.B. (*Oberlin Coll.*) 1887,	*Jefferson, O.*	27 Irving St.
Hubbard, Gorham, A.B. 1887,	*Boston*,	210 Beacon St., Boston.
Hudson, Charles, A.B. 1887,	*Knoxville, Tenn.*	T. 20.
Hunt, Thomas, A.B. 1887,	*New Orleans, La.*	M. 34.
Huntington, Francis Cleaveland, A.B. 1887,	*New York, N. Y.*	D. 41.
Hyde, Louis Fiske, A.B. 1887,	*Brookfield*,	S. 8.
Jepherson, George Arthur, A.B. (*Brown Univ.*) 1887,	*Providence, R. I.*	25 Holyoke St.
Jones, Francis Richard, A.B. 1887,	*Boston*,	273 Newbury St., Boston.
Kuhn, August,	*Des Monies, Ia.*	715 Cambridge St.
Kuhn, Hamilton, A.B. 1887,	*Boston*,	H'ke 50.
Lawrence, John, A.B. 1885,	*Boston*,	4 Garden St.
Linn, William Walton, A.B. 1887,	*Decatur, Ill.*	M. 54.
Litchfield, Frederick Ellsworth,	*Wollaston*,	H. 3.
Meehan, Thomas Francis Benedict, S.B. (*Mass. Agricultural Coll.*) 1887,	*Jamaica Plain*,	3451 Washington St., Jamaica Plain.
Michael, Francis, A.B. 1887,	*San Francisco, Cal.*	750 Cambridge St.
Niles, Alfred Jerome,	*Wellsborough, Pa.*	10 Frisbie Pl.
Norcross, Frederic Franklin, A.B. (*Beloit Coll.*) 1887,	*Janesville, Wis.*	17 Chauncy St.
Oaks, Charles James, ABIT. (*Baden Gymn.*) 1887,	*Albany, N. Y.*	2 Holmes Pl.
Palmer, Charles Harvey,	*Milwaukee, Wis.*	H'y 7.

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Palmer, Francis Sterne, A.B. 1887,	*Plattsburgh, N. Y.*	46 North Ave.
Pearson, Gardner Whitman,	*Lowell,*	S. 32.
Pinkham, Walter Samuel, A.B. 1887,	*Wollaston,*	H. 3.
Presbrey, Palmer Ellis, A.B. 1885	*Cambridge,*	14 Craigie St.
Rantoul, Charles William, Jr. A.B. 1887,	*Beverly,*	S. 3.
Rhinelander, Thomas Newbold, A.B. 1887,	*New York, N. Y.*	Beck Building 1.
Rideout, Elmer Ellsworth, A.B. (*Bowdoin Coll.*) 1886,	*Portland, Me.*	12 Plympton St.
Rounds, Arthur Charles, A.B. (*Amherst Coll.*) 1887,	*Plymouth, N. H.*	14 Mellen St.
Rowell, Wilbur Everett, A.B. (*Wesleyan Univ.*) 1885,	*Lawrence,*	34 Wendell St.
Rust, Philip Sidney, A.B. 1887,	*Boston,*	880 Main St.
Sampson, Robert de Wolfe, A.B. 1887,	*New York, N. Y.*	Little's Block 22.
Schofield, Henry, A.B. 1887,	*Dudley,*	H. 13.
Shattuck, Charles Edward, A.B. 1887,	*Winchester,*	G. 22.
Sheffield, James Rockwell, A.B. (*Yale Univ.*) 1887,	*Utica, N. Y.*	746 Cambridge St.
Smalley, Phillips,	*London, Eng.*	53 Oxford St.
Smith, Charles Gaston, A.B. 1887,	*Roxbury,*	H. 31.
Smith, Frank Bulkeley, A.B. 1886,	*Worcester,*	12 Story St.
Snow, Alva Edson, A.B. (*Tufts Coll.*) 1887,	*Mattapoisett,*	67 Mt. Auburn St.
Stedman, Livingston Boyd, A.B. 1887,	*Chicago, Ill.*	W. 53.
Stevens, Elisha Morse, A.B. (*Amherst Coll.*) 1885,	*Minneapolis, Minn.*	18 Story St.
Sublett, Tolbert Fanning, A.B. (*Fisk Univ.*) 1883,	*Nashville, Tenn.*	5 Elmer St.
Swarts, John Nicolson, A.B. (*Eureka Coll.*) 1887,	*Washburn, Ill.*	53 Oxford St.
Thayer, Aaron Claflin, A.B. 1887,	*Milford,*	T. 50.
Thompson, William Henry, A.B. (*Kentucky Univ.*) 1887,	*Mays Lick, Ky.*	46 Langdon St.
Walker, Joseph, A.B. (*Brown Univ.*) 1887,	*Worcester,*	54 Garden St.
Whitney, William Belcher, A.B. (*Amherst Coll.*) 1887,	*Bennington, N. H.*	14 Mellen St.

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Willard, Waldo Wickham, A.B. 1887,	*Chelsea,*	H'y 9.
Withrow, Charles Le Baron,	*Chicago, Ill.*	714 Cambridge St.

SPECIAL STUDENTS.

Abbott, Leon Martin,	*Keene, N. H.*	C. 29.
Adams, John Charles, A.B. (*Yale Univ.*) 1886,	*Oakland, Cal.*	M. 53.
Baker, Wakefield,	*San Francisco, Cal.*	61 Brattle St.
Bourn, Augustus Osbourn, Jr.	*Bristol, R. I.*	C. 69.
Briggs, Clinton Henry,	*Omaha, Neb.*	359 Harvard St.
Campbell, Joseph Aloysius, A.B. (*Mt. St. Mary's Coll.*) 1885, A.M. (*Ibid.*) 1887,	*Dorchester,*	[Dorchester. 8 Mt. Vernon St.,
Capen, Samuel Davis, A.B. (*Yale Univ.*) 1885,	*St. Louis, Mo.*	14 Oxford St.
Chadwick, William Perry,	*Exeter, N. H.*	Felton Building 31.
Doherty, Joseph Edward,	*Cambridgeport,*	16 Kinnaird St.
Dwyer, Andrew Francis,	*Cambridge,*	12 Fairmont Ave.
Frye, James Albert,	*Boston,*	H'y 9.
Guild, Charles Fox May,	*Boston,*	W. 43.
Heidingsfeld, Benjamin L,	*Greenfield, O.*	714 Cambridge St.
Hill, Benjamin Thomas, A.B. 1886,	*Worcester,*	W. 46.
Holland, Francis Joseph, A.B. (*Mt. St. Mary's Coll.*) 1886,	*Boston,*	[Boston. 94 Pembroke St.,
Lincoln, Charles Plimpton,	*Somerville,*	46 Laurel St., Somer-
Lindley, Morton Arrington,	*Sacramento, Cal.*	18 Story St. [ville.
Loewenstein, Daniel Washington,	*Cincinnati, O.*	C. 50.
McDonald, Grant Murray,	*Portland, Me.*	Beck Build'g 4. [ton.
McIntyre, William John,	*Boston,*	20 Hudson St., Bos-
McLellan, William Henry,	*Kansas City, Mo.*	715 Cambridge St.
Mead, Joshua Roberts,	*New London, Conn.*	14 Appian Way.
Miller, Jarvis Henry,	*Cincinnati, O.*	16 Story St.
Minot, Charles Henry, Jr., A.B. 1886,	*Boston,*	[Boston. 301 Berkeley St.,
Owen, Ephraim Franklin,	*Emporia, Kan.*	D. 17.
Parker, Chauncey Goodrich, A.B. 1885, LL.B. (*Columbia Coll.*) 1887,	*Newark, N. J.*	Wadsw'th House 11.
Smith, John Harrison,	*Piqua, O.*	G. 3.
Southwick, Walter Henry,	*W. Peabody,*	W. Peabody.
Strong, Charles Howard,	*Jerseyville, Ill.*	12 Kirkland Pl.
Thomas, Francis Clark,	*Oswego, N. Y.*	Felton Building 23.

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Tooker, John Stansbury,	*Newport, R. I.*	Beck Building 44.
Vila, Joseph,	*Brookline,*	Shepherd Block 4.
Vingut, George Floyd,	*Setauket, L. I.*	Read's Block 20.
Vingut, Harry Kermit,	*New York, N. Y.*	896 Main St.
Wadham, James Edward,	*San Diego, Cal.*	10 Frisbie Pl.
Welch, Ernest Morton,	*Philadelphia, Pa.*	715 Cambridge St.
Weston-Smith, Robert Dickson, A.B. 1886,	*Boston,*	[Boston. 48 Mt. Vernon St.,
White, Samuel Frank,	*Cambridge,*	104 Windsor St.
Woods, Charles Henry,	*Cambridge,*	11 Antrim St.

SUMMARY.

Resident Graduates	2
Third Year's Students	30
Second Year's Students	55
First Year's Students	89
Special Students	39
Total	215

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THE LAW SCHOOL.

COURSE OF INSTRUCTION.

The design of this School is to afford such a training in the fundamental principles of English and American Law as will constitute the best preparation for the practice of the profession in any place where that system of law prevails. With this view, the course of study, which is designed to occupy the student three full years, will comprise the following subjects: —

First Year.

Contracts. Assistant Professor Keener. *Three hours a week.* Langdell's Cases on Contracts.

Real Property.[1] Professor Gray. *Two hours a week.*

Torts. Mr. Schofield. *Two hours a week.* Ames's Cases on Torts.

Civil Procedure at Common Law. Professor Ames. *One hour a week.* Ames's Cases on Pleading.

Criminal Law and Procedure.[1] Professor Thayer. *One hour a week.*

Second Year.

Bills of Exchange and Promissory Notes. Professor Ames. *Two hours a week.* Ames's Cases on Bills and Notes.

Contracts.[1] Assistant Professor Keener. *Two hours a week.*

Evidence.[1] Professor Thayer. *Two hours a week.*

Jurisdiction and Procedure in Equity. Professor Langdell. *Two hours a week.* Langdell's Cases in Equity Pleading.

Property.[1] Professor Gray. *Two hours a week.*

Sales of Personal Property. Professor Thayer. *Two hours a week.* Langdell's Cases on Sales.

Trusts. Professor Ames. *Two hours a week.* Ames's Cases on Trusts.

Third Year.

Agency.[1] Assistant Professor Keener. *Two hours a week.*

Jurisdiction and Procedure in Equity. Professor Langdell. *Two hours a week.* Langdell's Cases on Equity Jurisdiction.

Partnership and Corporations. Professor Ames. *Two hours a week.* Ames's Cases on Partnership.

Suretyship and Mortgage.[1] Professor Langdell. *Two hours a week.*

[1] No text-book.

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Constitutional Law.[1] Professor THAYER. *One hour a week.*

[Jurisdiction and Practice of United States Courts.[1] Professor GRAY. *One hour a week.*]

Omitted in 1887–88.

Law of Persons.[1] Professor GRAY. *One hour a week.*

Wills and Administration.[1] Professor GRAY. *One hour a week.*

Conflict of Laws.[1] Assistant Professor KEENER. *One hour a week for half the year.*

Points in Legal History.[1] Professor AMES. *One hour a week for half the year.*

In addition to the foregoing third-year subjects, third-year students may elect any second-year subjects which they have not taken in their second year.

Every student who has been in the School one year or more has an opportunity each year of arguing in a moot court case before one of the professors.

Every candidate for the honor degree will be required to take ten hours a week in each of the last two years.

Every candidate for the ordinary degree will be required to take in the second year ten hours a week in the subjects of that year, and in the third year eight hours a week.

Instruction in Other Departments of the University.

The instruction given in the other departments of the University, with the exception of exercises carried on in the special laboratories, is also open, without additional charge, to students of the Law School; but this provision does not apply to Special Students unless they pay the full tuition fee of $150. Among the numerous courses of instruction in Harvard College (about two hundred in all), those upon Roman Law, Political Economy, and History, are particularly suitable for Law Students; but many other courses, such as those upon English Literature, Modern Languages, Philosophy, and Physical Science, may be useful to students whose previous opportunities have been limited. Those who wish to avail themselves of these privileges must procure from the Dean a certificate of membership of the School.

The Hemenway Gymnasium is open to members of this School, without extra charge. It is in charge of a physician, Dr. D. A. SARGENT, who is an expert in the department of physical training; and each student is entitled to a thorough personal examination by the Director and to special direction and advice as to the form and amount of physical exercise best suited to his case.

[1] No text-book.

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ADMISSION.

Graduates of colleges will be admitted as candidates for a degree, without examination, upon producing their diplomas; candidates for a degree who are not graduates of colleges will be admitted only upon passing a satisfactory examination in the following subjects: —

1. LATIN. Candidates will be required (1) to translate (without the aid of grammar or dictionary) passages selected from the following books: Caesar's Commentaries on the Gallic War, Books I.-IV. (or Books I.-III. and Sallust's Catiline), and Cicero's Four orations against Catiline, and his Oration for Archias; — and (2) to translate at sight average passages from Caesar and Cicero's Orations.

2. BLACKSTONE COMMENTARIES (exclusive of editors' notes).

Proficiency in French, representing an amount of preparatory work equivalent to that demanded of those who offer Latin, will be accepted as a substitute for the requisition in the latter language. Candidates will be required to translate (without the aid of grammar or dictionary) passages from standard French prose authors, and also to render passages of easy English prose into French.

The Faculty will, at their discretion, permit some other language to be substituted for Latin or French; but a satisfactory examination in some language other than English will be required in all cases. The examinations will be in writing; and, in judging the work of the candidates, attention will be paid to spelling, punctuation, grammar, and expression.

Two examinations for admission will be held each year: one at the beginning of the summer vacation; the other at the beginning of the academic year in the autumn.

In 1888, the first examination will be held on Thursday, June 28, at the following places: —

In *Cambridge*, in Austin Hall; in *Quincy*, in rooms of the Adams Academy; in *Andover*, in rooms of the Phillips Academy; in *Exeter, N. H.*, in rooms of the Phillips Exeter Academy; in *New York*, in the lecture-room of the Young Men's Christian Association, Twenty-third Street, corner of Fourth Avenue; in *Philadelphia*, in the library-hall of the Academy of Natural Sciences, S. W. corner of Nineteenth and Race Streets; in *Cincinnati*, in the rooms of the Law School, College Building, Walnut Street; in *Chicago*, in the Hoyne School Building, corner of Cass and Illinois Streets; in *St. Louis*, in the Central High School Building, corner of Olive and Fifteenth Streets; in *San Francisco*, in rooms of the Boys' High School on Sutter Street, between Gough and Octavia Streets; and in some convenient city in Europe, to be announced later.

The second examination will be held *in Cambridge only*, on Thursday, Sept. 27.

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For each examination candidates will assemble at 9 A.M. Candidates who are allowed to substitute some other language for Latin or French will be examined in such language at the second examination only. *No person will be examined at any other time or place than those above specified.*

Applicants will be required, before examination, to produce certificates of good moral character.

The Faculty will accept the degree of Bachelor of Science, or other degree of similar import, instead of the degree of Bachelor of Arts, when satisfied that it represents an amount of linguistic training equal to that required of those who offer themselves for examination.

Advanced Standing.

Admission to the second-year class will be allowed upon examination, which will require of the candidates a thorough knowledge of the following books: Williams on Real Property; Washburn on Real Property (Book I., Chapters 1 to 5 inclusive, 10 to 12 inclusive, and Chapter 14; also Book II., Chapters 1 and 2); Langdell's Cases on Contracts, 2d ed.; Ames's Cases on Torts, Parts I.–II.; Blackstone's Commentaries, Book IV.; May's Criminal Law; Ames's Cases on Pleading. The examination is by printed questions, which the candidates answer in writing in the presence of the examiner.

Candidates for admission to the second-year class will also be required to pass the examination for admission to the first-year class, as above set forth, unless they have received a degree which entitles them to admission without examination.

The examination for admission to advanced standing in the year 1888 will be held in Austin Hall, Cambridge, on Thursday and Friday, Sept. 27 and 28, beginning at 9 A.M. on Thursday. No applicant will be examined at any other time.

Special Students.

Persons who are not candidates for a degree may, upon producing certificates of good moral character, enter the School as special students at any time without examination, and avail themselves of its advantages in whatever manner and to whatever extent they see fit.

DEGREE OF BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred upon students who having been in the School during at least two full years as candidates for a degree, shall have passed satisfactory examinations in the entire course of three years. The degree of Bachelor of Laws *cum laude* will be conferred upon students who, having been in the School during at least two

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full years as candidates for a degree, shall have passed examinations of distinguished excellence in the entire course of three years. The examinations in the studies of the second and third years must be passed at the end of each year respectively. In the studies of the first year the examinations must be passed either at the end of that year or at the examination for advanced standing in September following. Neither degree will be conferred until the candidate shall have attained the age of twenty-one years. Candidates for a degree who are admittep to advanced standing must remain in the School during the whole of the second and third years. Those who are in the School during the whole of their first year may be absent during their second or third year; but those who are absent during their second or their third year must return and pass their examinations in the studies of that year with their class at the end of the year.

All persons who, while members of the School, shall pass a satisfactory examination in one or more subjects, will be entitled to a certificate, stating the length of time they have been members of the School and specifying the subjects in which they have passed such examination.

DEGREE OF MASTER OF ARTS.

Standing Rules of the Corporation and Board of Overseers.

RULE 1. The degrees of Master of Arts and Doctor of Philosophy are open to Bachelors of Arts of Harvard College and to Bachelors of Arts of other colleges, who shall have satisfied the College Faculty, by examination, that the course of study for which they received the Bachelor's degree is equivalent to that for which the Bachelor's degree is given in Harvard College, or shall have passed such additional examinations as that Faculty may prescribe.

RULE 5. The Academic Council will recommend for the degree of Master of Arts candidates otherwise properly qualified, who, after taking the Bachelor's degree, shall pursue for at least one year at the University a course of liberal study approved by the Council, and shall pass with high credit examination on that course. The Council will designate, from time to time, those courses of instruction in the Professional and Scientific Schools which will be approved by it for the degree of A.M.

Under the above Rule 5, the Academic Council will approve studies pursued in the Law School as constituents of the one year's course of liberal study to be pursued by candidates for the degree of Master of Arts; but no study in the Law School will be approved as part of such one year's course unless the Council is satisfied that the candidate offering it has no intention or expectation of counting the same study towards the degree of Bachelor of Laws.

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Under the same Rule the Council will also recommend for the degree of Master of Arts students, otherwise properly qualified, who are recommended by the Law Faculty for the degree of Bachelor of Laws, after the longest course of study and residence provided for such degree, and upon examinations passed with high credit.

SCHOLARSHIPS.

A limited number of scholarships, of the annual value of one hundred and fifty dollars each, will be hereafter awarded to meritorious students standing in need of such assistance, who have been in the School one full year at least, and who intend to remain in the School another full year at least. The award will be made by the Corporation, on the recommendation of the Faculty, at the beginning of each academic year. One-third of the annual value of the scholarships is paid on the 10th of October following the award, one-third on the 12th of January, and one-third on the 12th of April. Applications for these scholarships must be made in writing, to the Dean, by the first of June. In making the award a preference will be given to members of the third-year class; and no scholarship will be granted to a member of the second-year class unless he intends to remain in the School until he completes the course.

PRIZES.

Members of the Law School may compete for the Bowdoin, Dante, Sargent, Toppan and Sumner Prizes. For subjects and conditions, see pp. 132–135.

FEES AND EXPENSES.

The tuition fee is $150 a year. There are no *extra* charges in the School.

The other expenses of a student for an academic year may be estimated as follows: —

Rent and care of a furnished room . . .	$40 to $150
Board for thirty-eight weeks	133 to 304
Fuel and Lights	20 to 25
Text Books	20 to 25
	$213 to $504

Board at cost can be obtained by members of the Law School at Memorial Hall. It is expected that the cost per week will not exceed four dollars and a quarter. Applications for seats should be made at the Hall to the Auditor, from whom full information can be obtained.

The term-bills are issued December 22, March 22, and one week before Commencement, and are to be paid respectively on or before January 12,

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April 12, and October 10; but the third bill of all candidates for degrees must be paid at least one day before Commencement. Each bill will contain one-third of the annual charges. When a student severs his connection with the School, his whole bill becomes payable at once.

A student who joins the Law School after the beginning of the academic year will be charged for instruction from the beginning of the third in which he joins. One who leaves during the year will be charged for instruction only to the end of the third in which he leaves, if, before that time, he gives written notice of his withdrawal to the Dean; otherwise he will be charged for instruction to the end of the third in which such written notice is given. The first third begins at the beginning of the academic year and ends December 31. The second third begins January 1 and ends March 31. The last third begins April 1 and ends at Commencement.

Every student must file a bond with the Bursar in the sum of $200, signed by two bondsmen, one of whom must be a citizen of the United States, for the payment of dues to the University; or, instead of filing a bond, he may deposit $50 with the Bursar upon his entrance, as security, and pay his tuition-fees in advance as follows: one third on or before October 1, one third on or before January 1, and one third on or before April 1. No officer or student in the University will be accepted as bondsman. Every student who lives in a College room or boards at Memorial Hall must file the same bond as undergraduates ($400), or pay rent for the year in advance, and make a deposit with the Bursar as security for the payment of his board at the rate of $5 a week. All persons living in College rooms are subject to the regulations of the Parietal Committee, in the same manner as undergraduates.

The School now occupies a new, spacious, and elegant building, Austin Hall. The lecture-rooms, reading-rooms, and other accommodations for students leave nothing to be desired. The Library (23,000 vols.) is liberally administered in the interest of the students, and about $3000 a year are spent in increasing and improving it.

For further information and for examination papers address JOHN H. ARNOLD, *Librarian of the Law School*, Cambridge, Mass.

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TABULAR VIEW OF EXERCISES IN THE LAW SCHOOL. 1887–88.

N, *E*, and *W* indicate North, East, and West lecture rooms respectively.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9–10		Torts. *N* Sales. *E*	Torts. *N* Bills and Notes. *E*	Bills and Notes. *E*	Pleading.† *N* Legal History.* *N* Conflict of Laws.† *W*
10–11	I. Property. *N* Equity Jurisdiction. *W*	I. Property. *N* Equity Jurisdiction. *W*	Suretyship. *W*	II. Contracts. *W*	II. Contracts. *W*
11–12	II. Property. *E*	II. Property. *E*	Sales. *E* Pleading.† *N*	Trusts. *N* Agency. *E*	Trusts. *N* Agency. *E*
12–1	Criminal Law.* *N* Constitutional Law.† *N*	Criminal Law.* *N* Equity Procedure. *W* Constitutional Law.† *N*	I. Contracts. *N* Equity Procedure. *W*	I. Contracts. *N* Evidence. *W* Partnership. *E*	I. Contracts. *N* Evidence. *W* Partnership. *E*
2–3	Wills. *E*	The Law of Persons. *W*			
3–4	Suretyship. *W*				

* For the first half of the year.

† For the last half of the year.

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THE LAWRENCE SCIENTIFIC SCHOOL.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*
WINFIELD S. CHAPLIN, A.M., *Dean, and Professor of Engineering.*
JOSEPH LOVERING, LL.D., *Professor of Mathematics and Natural Philosophy, and Director of the Jefferson Physical Laboratory.*
JOSIAH D. WHITNEY, LL.D., *Professor of Geology.*
JOSIAH P. COOKE, LL.D., *Professor of Chemistry and Mineralogy, and Director of the Chemical Laboratory.*
JAMES M. PEIRCE, A.M., *Professor of Astronomy and Mathematics.*
GEORGE L. GOODALE, A.M., M.D., *Professor of Botany, and Director of the Botanic Garden.*
CHARLES H. MOORE, *Instructor in Drawing and Principles of Design.*
NATHANIEL S. SHALER, S.D., *Professor of Palaeontology.*
JOHN TROWBRIDGE, S.D., *Professor of Physics.*
WILLIAM G. FARLOW, A.M., M.D., *Professor of Botany.*
CHARLES L. JACKSON, A.M., *Professor of Chemistry.*
WILLIAM M. DAVIS, M.E., *Assistant Professor of Physical Geography.*
HENRY B. HILL, A.M., *Professor of Chemistry.*
EDWARD L. MARK, PH.D., *Professor of Anatomy.*
EDWIN H. HALL, PH.D., *Instructor in Physics.*
BENJAMIN O. PEIRCE, PH.D., *Assistant Professor of Mathematics and Physics.*
HAROLD WHITING, PH.D., *Instructor in Physics.*
OLIVER W. HUNTINGTON, PH.D., *Instructor in Mineralogy and Chemistry.*

OTHER INSTRUCTORS AND ASSISTANTS.

JOHN E. WOLFF, A.B., *Instructor in Petrography.*
ARTHUR M. COMEY, PH.D., *Assistant in Chemistry.*
ROLAND THAXTER, A.B., *Assistant in Biology.*
JOHN CASSAN WAIT, C.E., S.M., *Instructor in Surveying and Drawing.*
HOWARD AYERS, PH.D., *Instructor in Zoölogy.*
WILLIAM F. GANONG, A.M., *Assistant in Botany.*
THADDEUS W. HARRIS, A.M., *Assistant in Geology.*
LOUIS L. JACKSON, A.B., *Assistant in Chemistry.*
GEORGE R. WHITE, A.M., *Assistant in Organic Chemistry.*
GEORGE H. PARKER, S.B., *Assistant in Zoölogy.*

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STUDENTS.

The Roman numerals indicate courses as follows: I., *Civil and Topographical Engineering;* II., *Chemistry;* III., *Natural History;* IV., *Mathematics and Physics.*

Fourth Year.

Carpenter, Benjamin,	III.	*Chicago, Ill.*,	M. 44.
Haskell, Augustus Story, A.B. 1887,	I.	*West Roxbury*,	H. 22.
Johnson, Lewis Jerome, A.B. 1887,	I.	*Milford*,	H. 2.
McCormick, James,	I.	*Cheshire*,	C. 44.

Second Year.

Peirce, George James,	III.	*Cambridge*,	686 Main St.

First Year.

Cox, Edmund Otis,	I.	*Brooklyn, N. Y.*	C. 61.

Special Students.

Agassiz, Maximilian,	*Cambridge*,	Hilton Block 39.
Atkinson, Edward Lincoln,	*Reading*,	C. 43.
Atkinson, Fred Washington,	*Reading*,	C. 43.
Cobb, Collier,	*Wilson, N. C.*	53 Oxford St.
Furniss, William Ponsonby,	*Boston*,	132 Huntington Ave., Boston.
Hunt, Paul,	*Boston*,	140 Marlborough St., Boston.
Martin, Wisner Bell,	*San Francisco, Cal.*	19 Irving St.
Miller, George Eugene,	*Cambridge*,	1 Athens St.
Nickerson, Winfield Scott,	*Cotuit*,	6 Charles River [St.
Perkins, Robert Forbes,	*Boston*,	9 Linden St.
Sinnott, Charles Peter,	*Marshfield*,	West Somerville.
Tarr, Ralph Stockman,	*Gloucester*,	H. 14.
Wadsworth, William Scott,	*Worcester*,	D. 39.
Whittle, Charles Livy,	*Hillsboro' Bridge, N. H.*,	H. 14.

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THE SCIENTIFIC SCHOOL.

COURSES OF INSTRUCTION.

This School offers extended courses of instruction in various departments of Science as stated below: —

I. Course of Four Years in Civil and Topographical Engineering.

Students, whose previous work enables them to pass the examinations in any of the required courses, may on so doing substitute for these courses others, chosen with the approval of the Faculty.

First Year.

Mathematics *C.* — Analytic Geometry. *Mon., Wed., Fri., at 11.* Professor J. M. Peirce.

Engineering 1. — Mechanical Drawing. — Descriptive Geometry. — Perspective. — Church's Descriptive Geometry. *Mon., Wed., Fri., at 2.* Mr. Wait.

Engineering 2. — Surveying, Plotting, and Topographical Drawing. — Gillespie's Land Surveying. — Gillespie's Higher Surveying. — Lectures. — Field Work. *Tu., Th., 2–5.* Mr. Wait.

German *A.* — Elementary Course. — Sheldon's Grammar. — Translation from German into English, and elementary exercises in translating into German. *Three times a week.* Asst. Professor Bartlett, Mr. Grandgent, and Mr. Hochdörfer.

Required of students who did *not* offer German at their examination for admission.

French *A.* — Elementary Course. — Chardenal's First French Course. — Bôcher's Reader. — French Prose. *Mon., Wed., Fri., at 2 or 3.* Mr. Sanderson.

Required of students who did *not* offer French at their examination for admission.

Also, one of the following courses: —

Chemistry 1. — General Descriptive Chemistry, including its applications in the arts, and embracing the scheme of the chemical elements. *Mon., Fri., at 12. Lectures and laboratory work.* Professor Jackson.

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Physics 1 and 2. — Principles and Methods of Physical Measurement, with laboratory work in Mechanics, Sound, Heat, Light, Electricity, and Magnetism. *Tu., Th., at 10.* Dr. HALL and Dr. WHITING.

Natural History 4 and 4*a*. — Geology. — Lectures. — Dana's Manual of Geology. — Laboratory Exercises. *Wed., Fri., at 12.* Professor SHALER and Mr. HARRIS.

Chemistry 2. — Determinative Mineralogy. — Lectures in the Mineral Cabinet and practical exercises. *Mon., Wed., Fri., at 10.* Dr. HUNTINGTON.

SECOND YEAR.

Mathematics 1. — Practical Applications of Trigonometry. — Principles of Surveying. — Spherical Trigonometry. — Applications of Spherical Trigonometry to Astronomy and Navigation. *Wed., Fri., at 3.* Professor C. J. WHITE.

Mathematics 2. — Differential and Integral Calculus; First Course. *Mon., Wed., Fri., at 11.* Asst. Professor B. O. PEIRCE.

Engineering 3. — Stereotomy. — Applications of Descriptive Geometry. *Three times a week.* Professor CHAPLIN.

Engineering 4. — Levelling. — Topographical Drawing. — Searle's Field Engineering. — The Theory of Railways. *Twice a week (six hours).* Mr. WAIT.

German 1. —Writers of the Nineteenth Century. — Composition. *Tu., Th., Sat., at 12.* Asst. Professor FRANCKE.

THIRD YEAR.

Engineering 5. — Graphical Statics. — Building Materials, and their applications to Structures. *Three times a week.* Professor CHAPLIN.

Mathematics 4. — Elements of Mechanics. *Tu., Th., Sat., at 11.* Mr. SAWIN.

Engineering 7. — Hydraulics, Water Supply and Sanitary Engineering. *Three times a week.* Professor CHAPLIN.

French 1. — George Sand. — Dumas. — About. — Sandeau. — La Fontaine. — Grammar, reading, conversation and composition. *Mon., Wed., Fri., at 9.* Asst. Professor COHN and Mr. SANDERSON.

Also, one of the following courses that has not already been taken: —

Physics 1 and 2. — Principles and Methods of Physical Measurement. *Tu., Th., at 10.* Dr. HALL and Dr. WHITING.

Chemistry 1. — Descriptive Chemistry. *Mon., Fri., at 12, with laboratory work.* Professor JACKSON.

Chemistry 2. — Mineralogy. *Mon., Wed., Fri., at 10.* Dr. HUNTINGTON.

Natural History 4 and 4*a*. — Geology. *Wed., Fri., at 12.* Professor SHALER and Mr. HARRIS.

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Natural History 8. — Second course in Geology, with Field-work. *Mon., Wed., Fri., at 10.* Professor SHALER, Asst. Professor DAVIS, and Mr. WOLFF.

Natural History 8 is open only to those who have already taken Natural History 4.

History 13. — Constitutional and Political History of the United States (1783–1861). *Tu., Th., Sat., at 12.* Dr. HART.

FOURTH YEAR.

Engineering 6. — Applied Mechanics and Constructive Engineering. *Five times a week.* Professor CHAPLIN.

Engineering 8. — Designing. — Discussions of existing structures and working out of projects. *Three times a week.* Professor CHAPLIN.

Preparation of Thesis.

Also, *one* of the following courses, neither having been taken before: —

Natural History 1. — Physical Geography and Meteorology.
Natural History 2. — Zoölogy.
Natural History 3. — Botany.
Natural History 4 and 4*a*. — Geology.
Natural History 16. — Geological Field-work.
Chemistry 1. — Descriptive Chemistry.
Chemistry 2. — Mineralogy.
Chemistry 3. — Qualitative Analysis.
Philosophy 2. — Psychology and Logic.
History 1. — European History.
History 13. — History of the United States.
Political Economy 1. — Principles of Political Economy.
English 12. — English Composition.
German 2 — Translation and Reading at sight.
French 8. — Translation and Reading at sight.

A more detailed account of these studies may be found in the Announcement of Courses of Instruction in Harvard College.

Students who complete this course, pass the required examinations, and present a satisfactory thesis, receive the degree of Civil Engineer.

II. Course of Four Years in Chemistry.

This course is intended for students preparing to become practical chemists or teachers of the science; and a student who completes the four years' course, passes the required examinations, and presents a satisfactory thesis, receives the degree of Bachelor of Science.

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The course is also open to *special students*, not candidates for a degree, on the terms stated below.

It may be so arranged that the studies of the first two years shall constitute a special course in practical chemistry, including all the details of chemical analysis. To those who finish satisfactorily this partial course, and prove their competency by laboratory work and by examination, certificates will be given stating the length of time they have been members of the School, and the extent of their preparation as Practical Chemists.

The following courses are regularly given at the Chemical Laboratory at Boylston Hall: —

Chemistry *A.* — Elementary Chemistry (Lectures). *Th*, *at 12* (*first half-year*). Professor COOKE.

Chemistry *B.* — Experimental Chemistry. *Tu., at 12, and laboratory work, Tu. or Th.*, 2–4. Professor COOKE and Dr. HUNTINGTON.

Chemistry *C.* — Elementary Lithology. *Wed., Fri, at 9, with frequent practical exercises.* Dr. HUNTINGTON.

Chemistry 1. — General Descriptive Chemistry, including its applications in the arts, and embracing the scheme of the chemical elements. *Mon., Fri., at 12. Lectures and laboratory work.* Professor JACKSON.

Chemistry 2. — Determinative Mineralogy. Lectures in the Mineral Cabinet and practical exercises. *Mon., Wed., Fri., at 10.* Dr. HUNTINGTON.

Chemistry 3. — Qualitative Analysis (chiefly laboratory work). *Mon., Wed., Fri., at 12.* Professor H. B. HILL and Mr. L. L. JACKSON.

Course 3 is open only to students who have taken Course 1.

Chemistry 4. — Quantitative Analysis (chiefly laboratory work). *Mon., Wed., Fri., at 3.* Professors COOKE and H. B. HILL.

Course 4 may be taken with Course 3, but otherwise is only open to students practised in qualitative analysis.

Chemistry 4*a*. — Quantitative Analysis (second course). — Laboratory work. *Mon., Wed., Fri., at 3.* Professors COOKE and H. B. HILL.

Chemistry 5. — The Carbon Compounds. Lectures and Laboratory Work. *Mon., Wed., Fri., at 9.* Professor H. B. HILL.

Course 5 is open only to students who have taken Course 3.

Chemistry 6. — Advanced Problems in Inorganic Chemistry including Molecular Weights and Volumes, Thermo-Chemistry, and Specific Refractive Power. *Mon., Wed., Fri., at 12.* Professor COOKE.

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Chemistry 7. — Crystallography and the Physics of Crystals (with work in the Mineral Cabinet). *Mon., Wed., Fri., at 10.* Professor Cooke.

Course 7 is given in alternate years.

Chemistry 10. — Special Advanced Study and Research.*

In addition to these courses in Chemistry, each candidate for the degree of Bachelor of Science must pass examinations on courses in French and German amounting in all to at least nine hours a week for one year, and on courses in Physics amounting in all to six hours a week for one year. Such courses may be selected, with the approval of the several instructors, from those offered in any year to the Undergraduates of Harvard College (see pp. 101–104, and 114). If the candidate did not pass in French at his examination for admission, six hours will be required in French. If he did not pass in German, six hours will be required in German.

From the courses above enumerated each student must elect studies amounting to twelve exercises a week during each of the first three years. In his election he will be guided by the Director of the Chemical Laboratory, by whom the selection must be approved. Students are at liberty to attend the instruction in as many other subjects as they may have time and taste for pursuing; but they are strongly recommended to give all the time they can command to their laboratory work.

The fourth year of this course will be devoted to chemical investigations in preparation for a thesis.

III. Courses of Four Years in Natural History.

These courses are designed to furnish a special training in the departments of Geology and Biology.

With the exception of Drawing, none of the alternative studies named below can be counted twice.

This course may be varied beyond the limits indicated in the programme, to meet the wants of individual students, on special application to the Faculty.

The studies of the first year are common to both departments.

Each student is required to designate at the beginning of the second year the department in which he intends to take his degree.

Students in Biology must take the course in Zoölogy (Natural History 2) either in their first or second year.

Those who make good use of the opportunities afforded by the summer schools or who, during the long vacation, pursue studies under the direction of the professors in their departments, may shorten this course of study to three years.

* See p. 118.

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FIRST YEAR.

Natural History 1. — Physical Geography and Meteorology. *Mon., Wed., Fri., at 9.* Asst. Professor DAVIS.

Natural History 4. — Geology. — Lectures. — Dana's Manual of Geology. *Wed., Fri., at 12.* Professor SHALER.

Natural History 5. — Biology. *Mon., Wed., Fri., at 2.* Professor FARLOW and Dr. AYERS.

Physics 1 and 2. — Principles and Methods of Physical Measurement with laboratory work in Mechanics, Sound, Heat, Light, Electricity, and Magnetism. *Tu., Th., at 10.* Dr. HALL and Dr. WHITING.

Free-hand Drawing (part of Fine Arts 1). — *Six hours a week.* Mr. MOORE.

German *A.* — Elementary Course. — Sheldon's Grammar. — Translation from German into English and elementary exercises in translating into German. *Three times a week.* Asst. Professor BARTLETT, Mr GRANDGENT, and Mr. HOCHDÖRFER.

Required of students who did *not* offer German at their examination for admission.

French *A.* — Elementary Course. — Chardenal's First French Course. — Bôcher's Reader. — French Prose. *Mon., Wed., Fri., at 2 or 3.* Mr. SANDERSON.

Required of students who did *not* offer French at their examination for admission.

SECOND YEAR.

Chemistry 1. — General Descriptive Chemistry, including its applications in the arts, and embracing the scheme of the chemical elements. *Mon., Fri., at 12. Lectures and laboratory work.* Professor JACKSON.

Natural History 2. — Zoölogy. *Tu., Th., at 10, and laboratory demonstrations (first half-year).* Professor MARK.

Natural History 3. — Botany. *Tu., Th., at 10, and laboratory practice (second half-year).* Professor GOODALE.

German 1. — Writers of the Nineteenth Century. — Composition. *Tu., Th., Sat., at 12.* Asst. Professor FRANCKE.

Geology.

Chemistry 2. — Determinative Mineralogy. — Lectures in the Mineral Cabinet, and practical exercises. *Mon., Wed., Fri., at 10.* Dr. HUNTINGTON.

Biology.

Natural History 6. — Zoölogy (second course). Lectures and Laboratory Work. *Tu., Th., Sat., at 9.* Dr. AYERS.

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Second-year students may also take: —

Free-hand Drawing (part of Fine Arts 1). — *Six hours a week.* Mr. MOORE.

THIRD YEAR.

Natural History 14. — Palaeontology. *Wed., Fri., at 9, and laboratory work.* Professor SHALER.

Chemistry 3. — Qualitative Analysis (chiefly laboratory work). *Mon., Wed., Fri., at 12.* Professor H. B. HILL and Mr. L. L. JACKSON.

French 1. — George Sand. — Dumas. — About. — Sandeau. — La Fontaine. — Grammar, reading, conversation and composition. *Mon., Wed., Fri., at 9.* Asst. Professor COHN, and Mr. SANDERSON.

Geology.

Natural History 8. — Second course in Geology (with field-work). *Mon., Wed., Fri., at 10.* Professor SHALER, Asst. Professor DAVIS, and Mr. WOLFF.

Engineering 2. — Surveying, Plotting, and Topographical Drawing. — Gillespie's Land Surveying. — Gillespie's Higher Surveying. — Lectures. — Field Work. *Tu., Th., 2–5.* Mr. WAIT.

Biology.

Natural History 7. — Botany (second course). *Tu., Th., at 2, and laboratory practice.* Professor GOODALE.

Natural History 13. — Microscopic Anatomy. — Lectures and laboratory work. *Mon., Wed., Fri., at 2 (first half-year).* Professor MARK.

FOURTH YEAR.

During the first week of the first term every fourth year student is required to submit to the Faculty for their approval his proposed course for the year. This course must consist of studies chosen, with the advice of his instructors, mainly from the following lists, and must include the preparation of a thesis exhibiting the results of a special investigation.

Geology.

Students of geology will be encouraged to give as much time as possible to work in the field, and a report of such work will form the best thesis that can be presented.

Natural History 15. — Historical Geology (with laboratory work). *Twice a week.* Professor SHALER.

Natural History 16. — Geological field-work; for training in the principles of Geologica Surveying, with work in the field and in the preparation of reports. Professor SHALER, Asst. Professor DAVIS, and Mr. WOLFF,

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Natural History 17. — Palaeontology (Advanced Course). Professor SHALER.

[Natural History 18. — Mineral Veins and Metalliferous Deposits: their mode of occurrence, and theories of their origin. *Once a week, counting as a half-course.* Professor WHITNEY.]
Omitted in 1887–88.

Natural History 22. — Petrography. *Three times a week.* Mr. WOLFF.

One or two of the following courses may be taken: —

Natural History 20. — Second course in Physical Geography and Meteorology. Asst. Professor DAVIS.

[Natural History 24. — North America: its Physical Geography and Geology; the past and probable future development of its Material Resources. *Twice a week.* Professor WHITNEY.]

Chemistry 7. — Crystallography and the Physics of Crystals.

Philosophy 2. — Psychology and Logic.

History 1. — European History.

History 13. — History of the United States.

Political Economy 1. — Principles of Political Economy.

English 12. — English Composition.

German 2. — Translation and Reading at sight.

French 8. — Translation and Reading at sight.

A more detailed account of these studies may be found in the Announcement of Courses of Instruction in Harvard College.

Biology.

Natural History 9 Embryology (with laboratory work). Professor MARK.

Natural History 10. — General Entomology (with laboratory work). Professor HAGEN.

Natural History 11. — Experimental Vegetable Physiology. — Systematic and Economic Botany. Professor GOODALE.

Natural History 12. — Structure and Development of Cryptogams. *Three times a week.* Mr. THAXTER.

Natural History 21. — Comparative Osteology. *Once a week, counting as a half-course.* Dr. SLADE.

Human Anatomy and Physiology. At the Medical School. Professors DWIGHT and BOWDITCH and Asst. Professor RICHARDSON.

One or two of the alternative studies named under the Geological course may be taken, excepting Natural History 20 and Chemistry 7.

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Students who complete either of the above courses, pass the required examinations, and present a satisfactory thesis, will receive the degree of Bachelor of Science.

IV. Course of Four Years in Mathematics and Physics.

This course may be varied beyond the limits indicated in the programme, to meet the wants of individual students, on special application to the Faculty.

First Year.

Mathematics *C.* — Analytic Geometry. *Mon., Wed., Fri., at 11.* Professor J. M. Peirce.

Physics 1 and 2. — Principles and Methods of Physical Measurement, with laboratory work in Mechanics, Sound, Heat, Light, Electricity, and Magnetism. *Tu., Th., Sat., at 10.* Dr. Hall and Dr. Whiting.

Chemistry 1. — General Descriptive Chemistry, including its applications in the arts, and embracing the scheme of the chemical elements. *Mon., Fri., at 12. Lectures and laboratory work.* Professor Jackson.

Engineering 1. — Mechanical Drawing. — Descriptive Geometry. — Perspective. — Church's Descriptive Geometry. *Mon., Wed., Fri., at 2.* Mr. Wait.

German *A.* — Elementary Course. — Sheldon's Grammar. — Translation from German into English, and elementary exercises in translating into German. *Three times a week.* Asst. Professor Bartlett, Mr. Grandgent, and Mr. Hochdörfer.

Required of students who did *not* offer German at their examination for admission.

French *A.* — Elementary Course. — Chardenal's First French Course. — Bôcher's Reader. — French Prose. *Mon., Wed., Fri., at 2 or 3.* Mr. Sanderson.

Required of students who did *not* offer French at their examination for admission.

Second Year.

Mathematics 2. — Differential and Integral Calculus; First Course. *Mon., Wed., Fri., at 11.* Asst. Professor B. O. Peirce.

Physics 6. — Experimental Physics, with laboratory work, for advanced students. *Tu., Th., Sat., at 9.* Professor Trowbridge.

Engineering 3. — Stereotomy. — Applications of Descriptive Geometry. *Three times a week.* Professor Chaplin.

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Also *two* of the following courses: —

Mathematics 3. — Analytic Geometry. *Mon., Wed., Fri., at 10.* Professor BYERLY.

Mathematics 4. — The Elements of Mechanics. *Tu., Th., Sat., at 11.* Mr. SAWIN.

Physics 3. — The Conservation of Energy. — Recitations and lectures. *Tu., Th., Sat., at 11.* Professor TROWBRIDGE.

Physics 4. — Undulatory Theory of Light. — Electricity and Magnetism. *Mon., Wed., Fri., at 12.* Professor LOVERING.

THIRD YEAR.

Mathematics 5. — Differential and Integral Calculus; second course. *Mon., Wed., Fri., at 11.* Professor BYERLY.

Also *three* of the following courses: —

Mathematics 6. — Quaternions and Theoretical Mechanics. *Mon., Wed., Fri., at 12.* Professor J. M. PEIRCE.

[Mathematics 12. — Descriptive and Spherical Astronomy. *Tu., Th., Sat., at 11.* Professor C. J. WHITE.]

[Physics 5. — The Spectroscope and its Applications. — Thermodynamics and Thermics, including the applications of Heat. *Mon., Wed., Fri., at 10.*]

Physics 9. — Elementary Course on the theory of Electrical Potential, with laboratory work. *Three times a week.* Asst. Professor B. O. PEIRCE.

Electrodynamics. — Professor TROWBRIDGE.

Dynamo-Electric Machines and Heat Engines. — Theory and Practice. (*counting as a full-course*). Dr. HALL.

FOURTH YEAR.

Preparation of Thesis.

Also *three* of the following courses: —

[Mathematics 8. — Analytic Mechanics. *Mon., Wed., Fri., at 10.* Professor BYERLY.]

[Mathematics 9. — Quaternions and Theoretical Mechanics; Second Course. *Mon., Wed., Fri., at 10.* Professor J. M. PEIRCE.]

Mathematics 10. — Trigonometric Series; Introduction to Spherical Harmonics; the Theory of the Potential. Professor BYERLY and Asst. Professor B. O. PEIRCE.

Mathematics 11. — Hydromechanics. *Tu., Th., at 11.* Asst. Professor B. O. PEIRCE.

[Mathematics 13. — Theory of Functions. *Three times a week.* Dr. COLE.]

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Physics 7. — Mathematical Physics (Maxwell's Electricity and Magnetism). *Three times a week.* Professor TROWBRIDGE.

Physics 11 and 12. — The Method of Least Squares and the Kinetic Theory of Gases. *Three times a week.* Dr. HALL.

Various reading-courses of which not more than two may, under certain conditions, be counted as half-courses.

Students who intend to make a special study of Electricity should make the following selection of courses: —

Second Year.	Third Year	Fourth Year.
Mathematics 4.	Physics 5.	Mathematics 8.
Physics 4.	Physics 9.	Mathematics 10.
	Mechanical Work.	Physics 7.

Students who complete this course, pass the required examinations, and present a satisfactory Thesis, will receive the degree of Bachelor of Science.

Instruction in other Departments of the University.

All students of the Scientific School may, if found competent, pursue any of the courses of instruction given in the other departments of the University, except exercises carried on in the special laboratories, without additional charge, but this provision does not apply to Special Students unless they pay the full tuition fee of $150.

REQUIREMENTS FOR ADMISSION.

All candidates for admission must furnish testimonials of their good moral character. These testimonials should be forwarded through the mail by their writers to the Dean of the School.

Candidates for admission to any one of the regular courses in Engineering, Chemistry, Natural History, or Mathematics and Physics, will be examined in the following subjects: —

3. *Latin.* — The translation at sight of simple prose.

7. *Mathematics.* — (*a*) Algebra, through Quadratic Equations. (*b*) Plane Geometry.

6. *Mathematics.* — (*a*) Logarithms; Plane Trigonometry, with its applications to Surveying and Navigation.

8. *Physical Science.* — Either (1) Astronomy (Lockyer's Elementary Lessons), and Physics (Avery's Elements of Natural Philosophy * or Gage's Elements of Physics); or (2) A course of experiments in the subjects of mechanics, sound, light, heat, and electricity, not less than forty in number, actually performed at school by the pupil. These experiments may be selected from A. M. Worthington's Physical Laboratory Practice

* See foot-note on p. 78.

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(Rivingtons, London, 1886), or from the "New Physics," by John Trowbridge (Appleton & Co., New York), or from any similar laboratory manual.

1. *English.* — The candidate will be required to write a short English composition, — correct in spelling (Worcester's Dictionary is the standard), punctuation, grammar, division by paragraphs, and expression, — upon one of several subjects announced at the time of the examination. In 1888 the subjects will be drawn from one or more of the following works: Shakspere's Julius Caesar and Twelfth Night; Johnson's Lives of Addison and Pope; Thackeray's English Humorists; Austin Dobson's Eighteenth Century Essays; Pope's Rape of the Lock, and Essay on Criticism; Miss Austen's Pride and Prejudice; Irving's Bracebridge Hall; Macaulay's Lays of Ancient Rome. Every candidate is expected to be familiar with *all* the books in this list.

The candidate will also be required to *correct specimens of bad English* set for him at the time of the examination.

The works prescribed for the examinations of 1889–90 are the following: —

For 1889: Shakspere's Julius Caesar and As You Like It; Johnson's Lives of Swift and Gray; Thackeray's English Humorists; Swift's Gulliver's Travels; Gray's Elegy written in a Country Churchyard; Miss Austen's Pride and Prejudice; Scott's Rob Roy and Marmion.

For 1890: Shakspere's Julius Caesar and Midsummer Night's Dream; Macaulay's Life of Johnson, and Essay on Boswell's Life of Johnson; Carlyle's Essay on Boswell's Life of Johnson; Johnson's Vanity of Human Wishes; Goldsmith's Vicar of Wakefield, and Deserted Village; Dobson's Eighteenth Century Essays; Scott's Quentin Durward; Macaulay's Lays of Ancient Rome.

4 or 5. *German* or *French.* — The translation at sight either of simple German prose, or of ordinary French prose. The passages set for translation will be similar to those set at the final examinations in German *A* and French *A* respectively, — college courses each having three hours of instruction a week through the year. A knowledge of the language itself, rather than of the grammar, is expected; but proficiency in elementary grammar, a good pronunciation, or facility in speaking, will be accepted as an offset for some deficiency in translation. There will be no required examination in pronunciation, but it is recommended that attention be given to pronunciation from the outset.

For the Course in Engineering, or in Mathematics and Physics. In addition to the above requisitions, candidates who propose to take either of these courses will be examined in —

6. (*b*) Either Solid Geometry or the Elements of Analytic Geometry.

All these subjects are identical with those of the same number in the Requirements for Admission to Harvard College.

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ADMISSION TO ADVANCED STANDING.

A candidate may be admitted to advanced standing either by passing examinations in all the studies already pursued by the class for which he offers himself, in addition to the entrance examinations; or upon such conditions as the Faculty may deem equitable in each case, regard being had to the applicant's previous course of study, and to the evidence of proficiency exhibited by him.

The successful study of any subject in Harvard College will be taken as an equivalent for the same subject in the Scientific School; but no graduate of the College will be given a Scientific School degree without at least one full year's work in the School.

ADMISSION WITHOUT EXAMINATION. SPECIAL STUDENTS

The courses of study in the Scientific School are open to persons who satisfy the Faculty of their fitness to pursue the particular courses they elect, although they have not passed the usual examinations for admission. These students are known as Special Scientific Students; they are members of the School from the time of their admission, but are not candidates for the degrees given by the School.

Special Students are subject to all the regulations of the School. A report of their work is sent to their parents or guardians twice a year.

The Faculty reserves the right to deprive any special student of his privileges at any time, if he abuse or fail to use them.

A certificate of proficiency will be given, if desired, to any Special Student who has faithfully pursued his chosen subjects throughout a year and attained not less than seventy-five per cent of the maximum marks therefor.

Persons who propose to enter the School as Special Students are required to furnish testimonals of good moral character and to indicate the courses of study they wish to pursue.

TIMES AND PLACES OF EXAMINATIONS.

All examinations are held at the same times and places, and under the same conditions, as those for admission to College.

Candidates for admission to the Lawrence Scientific School will fill out the same blanks as other candidates, but must be careful to put upon each paper L. S. S. (abbreviation for Lawrence Scientific School).

Two regular examinations for admission are held each year, — one at the beginning of the summer vacation, and the other at the beginning of the academic year in the autumn.

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In 1888 the *first examination* will be held at the following places on Thursday, Friday, and Saturday, June 28, 29, and 30: in *Cambridge*, in Sever Hall; in *Quincy*, in rooms of the Adams Academy; in *Andover*, in rooms of the Phillips Academy; in *Exeter, N. H.*, in rooms of the Phillips Exeter Academy; in *New York*, in the lecture-room of the Young Men's Christian Association, Twenty-third Street, corner of Fourth Avenue; in *Philadelphia*, in the library hall of the Academy of Natural Sciences, S. W. corner of Nineteenth and Race Streets; in *Cincinnati*, in the rooms of the Law School, College Building, Walnut Street; in *Chicago*, in the Hoyne School Building, corner of Cass and Illinois Streets; in *St. Louis*, in the Central High School Building, corner of Olive and Fifteenth Streets; in *San Francisco*, in rooms of the Boys' High School, on Sutter Street, between Gough and Octavia Streets; and in some convenient city in Europe, to be announced later.

The *second examination* will be held in Cambridge only, on Wednesday, Thursday, and Friday, September 26, 27, and 28. On the first day of examination candidates will assemble punctually at 8 o'clock A.M.

Candidates who propose to be examined in any other place than Cambridge are requested to send their names to the *Secretary of Harvard University*, Cambridge, Mass., *in time for him to receive them by June 16th.*

A fee of five dollars is to be paid in advance by every candidate who is examined at any other place than Cambridge. The fee should be sent by check, postal order, or registered letter to ALLEN DANFORTH, *Bursar*, Cambridge, Mass., at the same time that the candidate sends his name to the Secretary.

ORDER OF EXAMINATIONS.

FIRST DAY.	SECOND DAY.	THIRD DAY.
8 A.M. Applicants meet the officer in charge of examination.	8–9 A.M. Physics.	10½–11½ A.M. Log. and Trigonometry.
	9–10 Plane Geometry.	11½–12½ P.M. Solid Geometry.
9–11 Latin.	10–11 Algebra.	12½–1½ French.
2–3 P.M. Analytic Geometry.	12½–2 P.M. English.	3–4 German.

Examinations for *advanced standing* are held in Cambridge in the autumn only. Candidates will present themselves in Sever Hall at 8½ A.M. on Tuesday, September 25. Due notice of times and places of examinations will be posted on the bulletin boards in Sever Hall.

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DEGREES.

THE DEGREES OF CIVIL ENGINEER AND BACHELOR OF SCIENCE. — As already stated, the degree of CIVIL ENGINEER may be conferred upon any student who has completed the prescribed course of study in Civil Engineering, passed the required examinations, and presented a satisfactory thesis; and the degree of BACHELOR OF SCIENCE may be conferred upon any student who has fulfilled the above requirements in Chemistry, Natural History, or Mathematics, Physics, and Astronomy. The grades of the degree of Bachelor of Science are *cum laude*, *magna cum laude*, and *summa cum laude*.

The grade of the degree and the course of study for which the degree is given will be specified in the Diploma.

The requisitions for the degree of DOCTOR OF SCIENCE are stated on p. 274.

INSTRUCTION FOR TEACHERS.

1. The school also offers facilities to teachers, and to persons preparing to be teachers, who desire to qualify themselves in the modern methods of teaching science by observation and experiment. A one year's course of study, adapted to this purpose, may be selected from the elements of NATURAL HISTORY, CHEMISTRY, and PHYSICS, including any of the following subjects: Physical Geography and Elementary Geology; General Chemistry and Qualitative Analysis; Mineralogy; Physics; Botany; Comparative Anatomy and Physiology; Zoölogy.

This course is flexible and comprehensive: the instruction is mainly given in the laboratories and museums of the University, and is of the most practical character, every student being taught to make experiments and study specimens.

Botanical instruction is given at the botanical laboratory. Dissecting and compound microscopes are provided for students, and the garden and greenhouses afford ample material for the practical study of the science. All work is under the direct supervision of Professors Goodale and Farlow.

Similar facilities are afforded for the study of Zoölogy, Comparative Anatomy and Physiology, Geology, and Palaeontology, at the laboratories of the Museum of Comparative Zoölogy, and of Mineralogy at the Mineral Cabinet. The instruction in Experimental Chemistry and Physics is given in the laboratories, and the students are shown the best methods of illustrating experimentally the principles of these sciences.

2. Special courses in Chemistry, Botany, and Geology are given during the vacation to teachers and others who are unable to attend during term time. (See pp. 299–303.)

3. There is no examination for admission to the Teachers' Course.

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SCHOLARSHIPS.

Four University Scholarships, of the annual value of one hundred and fifty dollars each, have been established in the Scientific School. They are assigned at the beginning of each academic year to meritorious students standing in need of such assistance, who have been in the School the whole of the preceding year, and propose to remain in it the whole of the ensuing year. The award is made by the Corporation on the recommendation of the Faculty. One third of the annual value of the Scholarships is paid at the time of the award, one third on January 12, and one third on April 12 following. Applications for these scholarships must be addressed, in writing, to the Dean, by the 1st of June.

There are also scholarships in the Scientific School, not exceeding eight at any one time, of the annual value of one hundred and fifty dollars each, for the benefit of graduates of the State Normal Schools. The manner in which these scholarships are divided among the Normal Schools is determined by the State Board of Education. The incumbents are originally appointed for one year on the recommendation of the principals of the schools from which they have been severally graduated; these appointments may be annually renewed on the recommendation of the Faculty of the Scientific School.

FELLOWSHIPS.

Graduates of the Scientific School may be appointed to the Parker Fellowships, the John Thornton Kirkland Fellowship, the Morgan Fellowships, and the John Tyndall Scholarship.

Students in the Scientific School may also be appointed to the Kirkland Fellowship and Tyndall Scholarship, and, if graduates of Harvard College, to any of the above Fellowships or to the Harris Fellowship. For full information, see pp. 275–279.

PRIZES.

Students in the Lawrence Scientific School may compete for the Bowdoin Prizes, for full information in regard to which see pp. 132–133.

FEES AND EXPENSES.

The tuition fee for the academic year in any of the above departments or courses is $150.

The tuition fees for candidates for the degree of Doctor of Science are stated on p. 282.

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The other expenses of a student for an academic year may be estimated as follows: —

Room	$30 to $100
Board for thirty-eight weeks	133 to 304
Books	20 to 25
Fuel and lights	15 to 35
Washing	19 to 38
Total	$217 to $502

Students in the Scientific School may join the Harvard Dining Association, and board at cost at Memorial Hall. They may obtain rooms in the College buildings by applying to the Bursar, either by mail or in person; but all students living in College rooms are subject to the regulations of the Parietal Committee, in the same manner as undergraduates. See pp. 149–151.

Students in Chemistry are supplied with all needed apparatus, but are required to restore it in as good condition as when received. They are charged for all damage or breakage, and also from ten to thirty dollars per annum for chemicals and use of apparatus.

Students in Engineering provide their own drawing materials.

The Hemenway Gymnasium (see p. 292), the Scientific School Library, and the College Library (see p. 286), are open to members of this School without extra charge.

The term-bills are issued December 22, March 22, and one week before Commencement, and are to be paid respectively on or before January 12, April 12, and October 10; but the third bills of candidates for degrees must be paid at least one day before Commencement. When a student severs his connection with the School his whole bill becomes payable at once.

A student who joins the Lawrence Scientific School after the beginning of the academic year will be charged for instruction from the beginning of the third in which he joins. One who leaves during the year will be charged for instruction only to the end of the third in which he leaves, if before that time he gives written notice of his withdrawal to the Dean; otherwise he will be charged for instruction to the end of the third in which such written notice is given. The first third begins at the beginning of the academic year and ends December 31. The second third begins January 1 and ends March 31. The last third begins April 1 and ends at Commencement.

BONDS.

Every student must file a bond with the Bursar in the sum of $200, signed by two bondsmen, one of whom must be a citizen of the United

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States, as security for the payment of dues to the University; or he may deposit with the Bursar $200 in money or in United States bonds for the same purpose; or he may deposit $50 as security, and pay his tuition-fees in advance as follows: one third on or before October 1, one third on or before January 1, and one third on or before April 1.

Every student who takes a College room or boards at Memorial Hall must file a bond for $400 or make a deposit of $400, *or*, in addition to the requirements of the preceding paragraph, he may, if he occupies a College room, pay the full year's rent in advance, and, if he boards at Memorial Hall, he may make a deposit as security for the payment of his board at the rate of $5 a week. Interest is not allowed on deposits.

No officer or student of the University will be accepted as bondsman.

For further information address Professor W. S. CHAPLIN, Dean of the Lawrence Scientific School, Cambridge, Mass.

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THE MEDICAL SCHOOL.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*
HENRY P. BOWDITCH, M.D., *Dean, and Professor of Physiology.*
FRANCIS MINOT, M.D., *Hersey Professor of the Theory and Practice of Physic.*
HENRY W. WILLIAMS, M.D., *Professor of Ophthalmology.*
DAVID W. CHEEVER, M.D., *Professor of Surgery.*
JAMES C. WHITE, M.D., *Professor of Dermatology.*
——— *Jackson Professor of Clinical Medicine.*
FRANK W. DRAPER, M.D., *Assistant Professor of Legal Medicine.*
FREDERICK I. KNIGHT, M.D., *Assistant Professor of Laryngology.*
CHARLES B. PORTER, M.D., *Professor of Clinical Surgery.*
EDWARD N. WHITTIER, M.D., *Assistant Professor of Clinical Medicine.*
J. COLLINS WARREN, M.D., *Associate Professor of Surgery.*
REGINALD H. FITZ, M.D., *Shattuck Professor of Pathological Anatomy.*
WILLIAM L. RICHARDSON, M.D., *Professor of Obstetrics.*
THOMAS DWIGHT, M.D., *Parkman Professor of Anatomy.*
EDWARD S. WOOD, M.D., *Professor of Chemistry.*
WILLIAM H. BAKER, M.D., *Assistant Professor of Gynaecology.*
WILLIAM B. HILLS, M.D., *Assistant Professor of Chemistry.*
WILLIAM F. WHITNEY, M.D., *Secretary, and Curator of the Anatomical Museum.*
CHARLES S. MINOT, S.D., *Assistant Professor of Histology and Embryology.*
MAURICE H. RICHARDSON, M.D., *Assistant Professor of Anatomy.*
FRANCIS H. WILLIAMS, M.D., *Assistant Professor of Materia Medica and Therapeutics.*

OTHER INSTRUCTORS.

SAMUEL H. DURGIN, M.D., *Lecturer on Hygiene.*
CHARLES F. FOLSOM, M.D., *Lecturer on Mental Diseases.*
HENRY P. QUINCY, M.D., *Instructor in Histology.*
GEORGE B. SHATTUCK, M.D., *Instructor in Clinical Medicine.*
FRANCIS A. HARRIS, M.D., *Demonstrator of Medico-legal Examinations.*
JAMES J. PUTNAM, M.D., *Instructor in Diseases of the Nervous System.*

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FREDERICK C. SHATTUCK, M.D., *Instructor in the Theory and Practice of Physic.*
EDWARD H. BRADFORD, M.D., *Instructor in Surgery.*
FRANCIS H. DAVENPORT, M.D., *Assistant in Gynaecology.*
THOMAS M. ROTCH, M.D., *Instructor in Diseases of Children.*
GEORGE M. GARLAND, M.D., *Instructor in Clinical Medicine.*
JOSEPH W. WARREN, M.D., *Instructor in Physiology.*
WILLIAM W. GANNETT, M.D., *Instructor in Pathology.*
CHARLES M. GREEN, M.D., *Instructor in Obstetrics.*
WILLIAM C. EMERSON, M.D., *Assistant in Chemistry.*
SAMUEL J. MIXTER, M.D., *Demonstrator of Anatomy.*
GEORGE H. MONKS, M.D., *Assistant in Operative Surgery.*
HERBERT L. BURRELL, M.D., *Demonstrator of Bandaging and Apparatus.*
HAROLD C. ERNST, M.D., *Demonstrator of Bacteriology.*
ROBERT W. GREENLEAF, M.D., *Assistant in Histology and Embryology.*
CHARLES HARRINGTON, M.D., *Instructor in Hygiene, and Assistant in Chemistry.*
HERMAN F. VICKERY, M.D., *Assistant in Clinical Medicine.*
OTIS K. NEWELL, M.D., *Assistant Demonstrator of Anatomy.*
WILLIAM M. CONANT, M.D. *Assistant in Anatomy.*
EDWARD REYNOLDS, M.D., *Assistant in Obstetrics.*
CHARLES W. TOWNSEND, M.D., *Assistant in Obstetrics.*
ELLIOTT G. BRACKETT, M.D., *Assistant in Materia Medica and Therapeutics.*

The following gentlemen will give special clinical instruction: —

THEODORE W. FISHER, M.D., *in Mental Diseases.*
JOHN HOMANS, M.D., *in the Diagnosis and Treatment of Ovarian Tumors.*
FRANCIS B. GREENOUGH, M.D., and ABNER POST, M.D., *in Syphilis.*
OLIVER F. WADSWORTH, M.D., *in Ophthalmoscopy.*
J. ORNE GREEN, M.D., and CLARENCE J. BLAKE, M.D., *in Otology.*
GEORGE L. WALTON, M.D., *in Diseases of the Nervous System.*
ELBRIDGE G. CUTLER, M.D., and WILLIAM W. GANNETT, M.D., *in Auscultation.*
ARTHUR T. CABOT, M.D., *in Genito-urinary Surgery.*

The Medical School is at the corner of Boylston and Exeter Streets, Boston, and the address of the Dean is Dr. H. P. Bowditch, Harvard Medical School, Boston.

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STUDENTS.

Course for Graduates.

Bowen, John Templeton, A.B. 1879, M.D. 1884, *Boston.*
Collins, Orville William, A.M. (*Bates Coll.*) 1876, M.D. 1887, *So. Framingham.*
Goodale, Walter Temple, A.B. (*Bowdoin Coll.*) 1874, M.D. 1887, *Saco, Me.*
Mayberry, Charles Bradford, A.M. (*Tufts Coll.*) 1884, M.D. 1887, *E. Weymouth.*
Moran, John Brennan, M.D. 1864, *Boston.*
Moran, Martin William, M.D. (*Bellevue Hosp. Med. Coll.*) 1887, *Boston.*
Sears, Henry Francis, A.B. 1883, M.D. 1887, *Boston.*
Thayer, Addison Sanford, A.B. 1881, M.D. (*Medical School of Maine*) 1886, *Portland, Me.*

Fourth Class.

Bolton, Charles James, *Somerville.*
Bryant, William Sohier, A.B. 1884, *Boston.*
Byron, James Tolman, *Stoneham.*
Carroll, Thomas Francis, *Watertown.*
Ensworth, William Howard, *E. Boston.*
Fox, William Yale, *Taunton.*
O'Connor, John James, *Springfield.*
Plummer, Henry Lincoln, *E. Boston.*
Schaake, Frederick Henry, *Lawrence.*
Treviño, Manuel Francisco, S.B. (*St. Joseph's Coll., Ky.*) 1884, *Matamoras, Mexico.*

Third Class.

Abbott, Harlan Page, A.B. (*Brown Univ.*) 1885, *Antrim, N. H.*
Anthony, Francis Wayland, A.B. 1879, *Bradford.*
Arnold, Horace David, A.B. 1885, *Newton.*
Blake, Harrison Gray, *Woburn.*
Burr, Chauncey Rea, PH.B. (*Yale Univ.*) 1884, *Portland, Me.*
Burrough, Thomas True, *Roxbury.*
Chadbourne, Arthur Patterson, A.B. 1885, *Cambridge.*
Chamberlain, Allen Howard, A.B. 1885, *Foxcroft, Me.*
Clark, Franklin Haven, A.B. 1884, *Boston.*
Clark, Horace, A.B. 1885, *Somerville.*
Coley, William Bradley, A.B. (*Yale Univ.*) 1884, *Westport, Conn.*
Craigin, George Arthur, A.B. 1885, *Boston.*

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Darrah, Rufus Elmer,	*Newport, R. I.*
Day, Frank Leslie, A.B. (*Brown Univ.*) 1885,	*Keene, N. H.*
Donahue, Hugh,	*Haverhill.*
Draper, Joseph Rutter, A.B. (*Williams Coll.*) 1885,	*Boston.* [*N. Y.*
Dunham, Theodore, A.B. 1885,	*Irvington-on-Hudson,*
Eliot, George,	*Brookline.*
Everett, Theodore,	*Dover, N. H.*
Finney, John Miller Turpin, A.B. (*Princeton Coll.*) 1884,	*Bel Air, Md.*
Fisk, Arthur Lyman, A.B. (*Yale Univ.*)	*Northampton.*
Garceau, Edgar,	*Boston.*
Goldthwait, Joel Ernest, S.B. (*Mass. Agric. Coll.*)	*Marblehead.*
Greenwood, Allen,	*Waltham.*
Harding, George Franklin,	*Boston.*
Hare, Charles Henry, PH.B. (*Brown Univ.*)	*Suffield, Conn.*
Harrington, Thomas Francis,	*Lowell.*
Hastings, Daniel Gott, A.B. (*Univ. of Rochester*)	*Rochester, N. Y.*
Johnson, Edward Stearns,	*Boston.*
Keep, Charles Manning,	*Boston.*
Kilroy, Philip, A.B. (*Holy Cross Coll.*)	*Springfield.*
Lewis, Henry Foster, A.B. 1885,	*Chicago, Ill.*
Lincoln, Jacob Read,	*Millbury.*
Mahoney, Stephen Andrew, A.B. (*Holy Cross Coll.*)	*Gloucester.*
Mansfield, Robert Joseph, A.B. (*Holy Cross Coll.*)	*Springfield.*
Moras, Edmond Raymond,	*Lawrence.*
Morse, Charles Ellsworth,	*Wareham.*
Morse, Charles Francis, A.B. 1883,	*Boston.*
Mowry, Jesse Everett,	*Greenville, R. I.*
Mumford, James Gregory, A.B. 1885,	*Rochester, N. Y.*
Paige, John Dudley,	*Boston.*
Perkins, Fred,	*Manchester, N. H.*
Peterson, Reuben, A.B. 1885,	*E. Boston.*
Reeves, Marcellus,	*Boston.*
Remington, Frederick DeLoss,	*Rochester, N. Y.*
Robinson, Rowland Rodman,	*Wakefield, R. I.*
Stanard, Albert Cushman, B.L. (*Univ. of Michigan*) 1884,	*Ann Arbor, Mich.*
Stewart, Ferdinand Augustus, A.B. (*Fisk Univ.*) 1885,	*Mobile, Ala.*
Stone, George Arthur,	*Ipswich.*
Storer, Malcolm, A.B. 1885.	*Newport, R. I.*
Thayer, William Sydney, A.B. 1885,	*Cambridge.*
Thompson, Fred,	*Salem.*

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Tilton, Edward James, A.B. 1885, *Andover.*
Urie, John Francis, *Boston.*
Utley, Edward Roswell, A.B. (*Amherst Coll.*) 1885, *Newton.*
Wardwell, William Tecumseh Sherman, *Boston.*
Welch, Edward Augustus, S.B. (*Wesleyan Univ.*) 1885, *Worcester.*
Wentworth, Arthur Howard, *Boston.*
Wenzlick, William, LL.B. (*Univ. of California*) *San Francisco, Cal.*
Winn, Charles Henry, A.B. (*Boston Coll.*) 1885, *Boston.*
Woodbury, William Richardson, A.B. (*Tufts Coll.*) 1885, *Melrose.*
Yocom, James Reed, A.B. 1885, *Richmond, Staten Island, [N. Y.*

SECOND CLASS.

Aldrich, Nathaniel Borden, *Fall River.*
Allen, Edwin Howard, A.B. (*Dartmouth Coll.*) 1885, *Alfred, Me.*
Ahearne, Cornelius Augustus, *Lynn.*
Andrews, Ezekiel Bennett, *Freedom, N. H.*
Ayer, Richard Gilbert, *Haverhill.*
Bacon, Edward Sawyer, *Dover, N. H.*
Banks, Herbert Huntington, *Barrington, N. S.*
Bates, Everett Alanson, A.B. (*Yale Univ.*) 1886, *Danielsonville, Conn.*
Bolster, Percy Gardner, A.B. 1886, *Roxbury.*
Bonney, Sherman Grant, A.B. (*Bates Coll.*) 1886, *Manchester, N. H.*
Bowen, Horace, *No. Attleboro'.*
Bremner, Samuel Kimball, A.B. (*Yale Univ.*) 1886, *Boxford.*
Brown, Augustus Homer, A.B. (*Bowdoin Coll.*) *Brunswick, Me.*
Burns, Edward Lewis, *E. Somerville.*
Campbell, Patrick Henry, *So. Boston.*
Carpenter, Irving Lloyd, *Manchester, N. H.*
Carpenter, Thomas Bernard, *Saxonville.*
Carroll, Francis Edward, A.B. (*Fordham Coll.*) *Boston.*
Churchill, Frank Spooner, A.B. 1886, *Milton.*
Clark, Clinton Dewey, A.B. (*Univ. of Rochester*) 1882, *Haverhill.*
Clark, Walter Thomas, A.B. 1886, *Cambridgeport.*
Crafts, Leo Melville, B.L. (*State Univ. of Minn.*) 1886, *Minneapolis, Minn*
Day, Arthur Kehew, A.B. 1886, *Concord, N. H.*
Deal, Edward Elvin, *E. Boston.*
Doe, Charles Cutler, S.B. (*Mass. Inst. of Technol.*) *Boston.*

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Forrest, Lawrence Francis, *Cambridge.*
Foster, Clarendon Atwood, *Bridgetown, N. S.*
Fuller, Daniel Hunt, A.B. (*Brown Univ.*) *Providence, R. I.*
Giblin, Frank Joseph, *So. Boston.*
Gibson, Charles Langdon, A.B. 1886, *Boston.*
Gray, Charles Henry, *Waltham.*
Grouard, John Shackford, *Exeter, N. H.*
Heffernan, James Andrew, *Cambridge.*
Heydecker, Henry Reading, A.B. (*Trinity Coll.*) 1886, *New York, N. Y.*
Holden, Eugene Martin, A.B. (*Bates Coll.*) 1884, *Otisfield, Me.*
Huddleston, John Henry, A.B. 1886, *Boston.*
Jelly, Arthur Carlton, A.B. 1881, *Boston.*
Jenkins, Thomas Lincoln, *Revere.*
Jones, Charles David, A.B. (*Boston Univ.*) *Melrose.*
Jones, Lyman Asa, A.B. (*Lawrence Univ.*) *Appleton, Wis.*
Kaan, George Warton, *Somerville.*
Keleher, Francis Joseph, A.B. (*Boston Coll.*) 1886, *Boston.*
Kelley, George Draper, *Worcester.*
Kenefick, Joseph Aloysius, *Lawrence.*
Kenison, Nehemiah Samuel, A.B. 1886, *Allenstown, N. H.*
Kingsley, George Lyle, A.B. (*Yale Univ.*) 1886, *Rome, N. Y.*
Kingsley, Willey Lyon, A.B. (*Yale Univ.*) 1886, *Rome, N. Y.*
Litch, John Goodrich, *Newton.*
McCabe, James Edward, A.B. (*Holy Cross Coll.*) 1886, *No Chelmsford.*
McCarthy, Thomas Horatio, *No. Easton.*
Mallory, Frank Burr, A.B. 1886, *Cleveland, O.*
Milliken, Walter Louis, *Boston.*
Moroney, William Joseph, *Pawtucket, R. I.*
Moulton, Rufus, A.B. (*Colby Univ.*) *Springvale, Me.*
Nichols, Edward Hall, A.B. 1886, *Reading.*
Palmer, Franklin Sawyer, A.B. 1886, *Boston.*
Palmer, George Monroe, *Boston.*
Payne, James Henry, A.B. 1886, *Boston.*
Peckham, Frank Edwin, PH.B. (*Brown Univ.*) 1885, *Providence, R. I.*
Pelton, Clarence Whitfield, *Dedham.*
Pinckard, Charles Philip, A.B. 1886, *Cincinnati, O.*
Pratt, Charles Augustus, A.B. 1886, *E. Somerville.*
Prouty, Albert Henry, *No. Brookfield.*
Pudor, Gustave Adolph, A.B. 1886, *Portland, Me.*
Ray, John Edward, *Boston.*
Rogers, Albert Edward, *Boston.*

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Seelye, Ralph Holland, A.B. (*Amherst Coll.*) 1886, *Northampton.*
Shaw, Henry Alden, *Worcester.*
Shay, Thomas McGuire, A.B. (*Boston Coll.*) 1888, *Roxbury.*
Slattery, John Richard, A.B. (*Georgetown Coll.*) 1885, *So. Boston.*
Smith, Arthur Donaldson, A.B. (*Univ. of Penn.*) 1885, *Andalusia, Pa.*
Smith, Edward Samuel, A.B. (*Holy Cross Coll.*) *Pawtucket, R. I.*
Smith, William Lord, A.B. 1886, *Boston.*
Sweeney, Hilary Tucker, *E. Boston.*
Swett, Eddy Benjamin, *W. Medford.*
Thayer, William Darwin, *Fredonia, N. Y.*
Thomas, John Jenks, A.B. (*Williams Coll.*) 1886, *Columbus, O.*
Thompson, John McQuaid, A.B. 1886, *Webster.*
Tigh, Frederick, *Danversport.*
Treviño, Donaciano, B.S. (*St. Joseph's Coll., Ky.*) 1884, *Matamoras, Mexico.*
Underhill, Charles Dudley, *Chelsea.*
Wheaton, Robert Archibald, *St. Paul, Minn.*
Whittemore, Frank Stowell, *Sandwich.*
Wilbur, Hubert Granville, A.B. 1886, *Fall River.*
Williams, William Frederic, A.B. (*Brown Univ.*) 1888, *Bristol, R. I.*

FIRST CLASS.

Abbot, Edward Stanley, A.B. 1887, *Cambridge.*
Ames, John Lincoln, A.B. 1887, *Jefferson, Me.*
Baird, Julian William, A.M., PH.C. (*Univ. of Mich.*) 1883, *Boston.*
Bancroft, George Andrew, *Lancaster.*
Bartol, John Washburn, A.B. 1887, *Lancaster.*
Beaumont, William Shepard, *Jamaica Plain.*
Blake, John Bapst, A.B. 1887, *Boston.*
Bowker, Everett M. *Brookline.*
Bragdon, Horace Elwood, *E. Boston.*
Brooks, William Allen, A.B. 1887, *Haverhill.*
Bryant, Edward Gilman, *Roxbury.*
Bustillo, Antonio, A.B. (*Institute of Santander*) *Cuba.*
Butler, John Edward, A.B. (*Amherst Coll.*) 1885, *Jamaica Plain.*
Chenery, William Elisha, A.B. (*Boston Univ.*) 1887, *Boston.*
Choate, Craig Cogswell, A.B. (*Bowdoin Coll.*) 1887, *Salem.*
Coggeshall, Frederic, A.B. 1886, *Cambridge.*

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Coolidge, Frederic Shurtleff, A.B. 1887,	*Boston.*
Cox, Benjamin Francis, A.B. 1887,	*Boston.*
Crockett, Eugene Anthony,	*W. Newton.*
Crooker, George Hazard, A.B. (*Brown Univ.*) 1887,	*Providence, R. I.*
Cummings, Irving Oscar, S.B. (*Dartmouth Coll.*) 1887,	*Concord, N. H.*
Curtis, Henry Fuller, A.B. (*Colby Univ.*) 1887,	*Kennebunk, Me.*
Curtis, John Benedict, A.B. (*Boston Coll.*) 1887,	*E. Cambridge.*
Cutler, George Washington,	*Waltham.*
Derby, William Parsons,	*Boston.*
Dudley, James Willard, A.B. 1887,	*Warsaw, N. Y.*
Duff, John, S.B. (*Mass. Inst. of Technol.*) 1881,	*Charlestown.*
Dwight, Edwin Welles,	*Auburndale.*
Faulkner, William Edward, A.B. 1887,	*Keene, N. H.*
Fenoulhet, John Henry, A.M. (*Cambridge Univ.*) 1884,	*England.*
Finn, Edward William,	*Dedham.*
Fitz, George Wells,	*Peconic, N. Y.*
Flagg, Franklin Parkinson,	*Woburn.*
Foote, Edward Milton, A.B. (*Univ. of Rochester*) 1887,	*Syracuse, N. Y.*
Fourtin, Edmund Randolph Peaslee,	*Wakefield.*
Gaveau, Ceran,	*Hayti.*
Gleason, Edwin Putnam,	*Needham.*
Grant, Herbert Lionel,	*Waterbury, Conn.*
Grimes, Warren Parker,	*Hillsboro' Bridge, N. H.*
Hall, George Clifton,	*Chelsea.*
Halpine, Andrew James,	*Lowell.*
Hendricken, Thomas Francis,	*Providence, R. I.*
Hipkiss, George,	*Boston.*
Hitchcock, Henry Russell, A.B. (*Brown Univ.*) 1884,	*Foxboro'.*
Hoover, Charles Frank, A.B. 1887,	*Miamisburg, O.*
Hosmer, Ernest Howard,	*Bedford.*
Houghton, Silas Arnold, A.B. 1887,	*Charlestown.*
Jackson, James Marsh, A.B. 1887,	*Roxbury.*
Johnson, Theodore Darwin Barton,	*Cambridge.*
Jones, Lombard Carter, A.B. 1887,	*Sandwich.*
Kelley, Stephen Augustus,	*Charlestown.*
King, William Rufus,	*Charlestown.*
Knight, Augustus Smith, A.B. 1887,	*Manchester.*
Knowlton, Herbert Eugene,	*Belfast, Me.*

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Legasey, George,	*Worcester.*
Lothrop, Howard Augustus, A.B. 1887,	*Sharon.*
Lynch, William Dominic, A.B. (*Georgetown Coll.*) 1886,	*New York, N. Y.*
Lyons, William Henry, A.B. (*Holy Cross Coll.*) 1886,	*Manchester, N. H.*
Mackin, Richard Joseph, A.B. (*Boston Coll.*) 1887,	*Dorchester.*
McPherson, William Ellsworth,	*Canton.*
Mahoney, Michael Peter,	*E. Providence, R. I.*
Manson, John Franklin,	*Ossipee, N. H.*
Mitchell, Edgar Ormsby,	*Newburgh, N. Y.*
Moreland, David Farquhuar,	*Woburn.*
Morgan, Lewis Edson,	*Needham.*
Morrill, George Albert,	*Boston.*
Morse, John Lovett, A.B. 1887,	*Taunton.*
O'Brien, John Frank, A.B. (*Holy Cross Coll.*) 1887,	*Lowell.*
O'Shea, Edward Flavian,	*E. Boston.*
Park, Francis Edwin,	*Boston.*
Pearson, Maurice Wellesley,	*Byfield.*
Percy, David Thomas,	*Salem.*
Pierce, Edward Elisha, A.M. (*Brown Univ.*) 1880,	*Providence, R. I.*
Proctor, Frank Ingersoll, A.B. 1887,	*Boston.*
Putnam, Willard Abram,	*New Salem.*
Quackenboss, Alexander, A.B. (*Dartmouth Coll.*) 1887,	*Worcester.*
Robinson, Thomas Johns, A.B. 1887,	*E. Taunton.*
Rogers, Bradlee,	*Winchester.*
Rolfe, William Alfred,	*Chili.*
Simpson, James Edwin,	*E. Boston.*
Snow, Wallace,	*Worcester.*
Stevens, John Frederic,	*Sullivan, Me.*
Stickney, Edwin Pangman,	*Sunapee, N. H.*
Straw, Amos Gale, A.B. (*Dartmouth Coll.*) 1887,	*Manchester, N. H.*
Strong, James Henry,	*E. Boston.*
Sullivan, John Francis, A.B. (*Mount St. Mary's Coll.*) 1882,	*Charlestown.*
Sullivan, John Henry,	*Worcester.*
Swan, Will Howard,	*Winchester, N. H.*
Tateum, Fred Thomas,	*Worcester.*
Taylor, John Thomson,	*Brookline.*
Titus, Hermon Franklin, A.M. (*Madison Univ.*) 1876,	*Newton.*
Tuttle, George Herman, A.B. 1887,	*Milton.*

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Walker, Lewis Marshall,	*Boston.*
Washburne, Elliott,	*Taunton.*
Welch, Edward John, A.B. (*Holy Cross Coll.*) 1887,	*Billerica.*
Whitmarsh, Willard Francis, A.B. (*Amherst Coll.*) 1887,	*No. Abington.*
Wolf, Theodore Parker,	*Boston.*
Young, Henry Dudley,	*Boston.*

SUMMARY.

Resident Graduates	8
Fourth Class	10
Third Class	62
Second Class	85
First Class	98
Total	263

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THE MEDICAL SCHOOL.

REQUIREMENTS FOR ADMISSION.

All candidates for admission, except those who have passed an examination for admission to Harvard College, must present a degree in Letters, Science, or Medicine, from a recognized college or scientific school, or pass an examination in the following subjects: —

1. ENGLISH. Every candidate will be required to write, legibly and correctly, an original English composition of not less than two hundred words, and also to write English prose from dictation.

2. LATIN. The translation of easy Latin prose.

3. PHYSICS. A competent knowledge of Physics (such as may be obtained from Balfour Stewart's Elements of Physics).

4. ELECTIVE SUBJECT. Each candidate must pass an approved examination in any *one* of the following subjects: French, German, the Elements of Algebra or of Plane Geometry, Botany.

Whenever the candidate shall give evidence of having passed a satisfactory examination in any of the above requirements either at Harvard College or at the Lawrence Scientific School, a subsequent examination in such subject or subjects will not be demanded for his admission to the Medical School.

Candidates will be admitted conditionally who pass in two of the four subjects; but, until these conditions are made up, no student will be permitted to take part in any exercises of the third class, or present himself for examination in the subjects of that class.

The examinations will be held at the Medical School and conducted in writing; specimens of the papers used will be found in the Catalogue to be obtained of the Dean. In judging the work of the candidate, the spelling, grammar, and construction will be considered.

The examinations for admission are held on the Thursday following the last Wednesday in June, and on the Monday preceding the last Wednesday in September, beginning at 10 A.M.

In 1888 the *examinations for admission* will ALSO be held at the following places, beginning at 8 A.M. on Thursday, June 28: —

In *Andover*, in rooms of the Phillips Academy; in *Quincy*, in rooms of the Adams Academy; in *Exeter, N.H.*, in rooms of the Phillips Exeter Academy; in *New York*, in the lecture-room of the Young Men's Christian

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Association, Twenty-third St., corner of Fourth Ave.; in *Philadelphia*, in the library-hall of the Academy of Natural Sciences, S. W. corner of Nineteenth and Race Sts.; in *Cincinnati*, in the rooms of the Law School, College Building, Walnut St.; in *Chicago*, in the Hoyne School Building, corner Illinois and Cass Sts.; in *St. Louis*, in the Central High School building, corner of Olive and Fifteenth Sts.; in *San Francisco*, in rooms of the Boys' High School, on Sutter St., between Gough and Octavia Sts.; and in some convenient city in Europe, to be announced later.

DIVISION OF STUDIES.

Four Years' Course.

For the First Year. — Anatomy, Physiology, General Chemistry,* and Materia Medica.

For the Second Year. — Practical and Topographical Anatomy, Medical Chemistry, Pathological Anatomy, Clinical Medicine, Surgery, and Clinical Surgery.

For the Third Year. — Therapeutics, Obstetrics, Theory and Practice of Medicine, Clinical Medicine, Surgery, and Clinical Surgery.

For the Fourth Year.—Ophthalmology, Otology, Dermatology, Syphilis, Laryngology, Mental Diseases, Diseases of the Nervous System, Diseases of Women, Diseases of Children, Obstetrics, Clinical and Operative Obstetrics, Clinical Medicine, Clinical and Operative Surgery, Legal Medicine, Orthopedic Surgery, Genito-urinary Diseases, Diseases of the Rectum, Exanthemata, Hygiene, Vaccination, Bacteriology, Clinical Microscopy, and the Preparation of Food for Infants and Invalids.

Three Years' Course.

For the First Year. — Anatomy, Physiology, General Chemistry,* and Materia Medica.

For the Second Year. — Practical and Topographical Anatomy, Medical Chemistry, Pathological Anatomy, Clinical Medicine, and Clinical Surgery.

For the Third Year.—Therapeutics, Obstetrics, Theory and Practice of Medicine, Clinical Medicine, Surgery, Clinical Surgery, Ophthalmology, Dermatology, Syphilis, Otology, Laryngology, Mental Diseases, Diseases of the Nervous System, Diseases of Women, Diseases of Children, Legal Medicine.

* Any student who shall have previously passed in the Undergraduate department or Scientific School of Harvard University an examination in General Chemistry (including qualitative analysis) will be exempt from examination in this branch, and may pursue the study of Medical Chemistry during his first year. The latter privilege will be granted to students from other colleges and scientific schools who have received instruction in general chemistry equivalent in character and amount to that of the first year, on passing a satisfactory examination at the September examination, provided that satisfactory evidence of such previous study be sent to the Dean of the Faculty one month before the date of this examination.

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METHODS OF INSTRUCTION.

The following methods of instruction are adopted in the several departments: —

Anatomy and Histology. — Lectures; various practical exercises, including abundant dissection, under the direction of the Demonstrator; recitations and demonstrations; histology, and embryology. The histological department has been reorganized, and the laboratories have been placed under the charge of special instructors. Laboratory instruction in the use of the microscope and in histology and embryology is offered to the first-year students. Accommodations are provided for those students who wish to pursue special or advanced courses. Facilities for original work are duly provided; students wishing to carry out any histological or embryological research receive all necessary assistance, and special efforts are made to provide material for original work. Microscopes are provided for those whose means do not permit the purchase of these instruments.

Physiology. — Lectures, recitations, conferences, and practical demonstrations in the Laboratory. To students of the second, third, and fourth classes, opportunities are given for original investigations in the Laboratory.

Chemistry is taught mainly by practical work in the Laboratory, the student having his own desk and apparatus. Descriptive Chemistry and qualitative analysis are taught during the first year. Besides the laboratory-work, there is a lecture and a recitation every week. In the second year medical chemistry is taught by lectures, recitations, and exercises in the Laboratory.

Pathological Anatomy is taught by lectures, recitations, and practical instruction in pathological histology. The collection of the Warren Anatomical Museum is used to illustrate the lectures, and morbid specimens in a fresh state are shown at the recitations, where the student is called upon to describe the appearances. Students also receive practical instruction in the method of making autopsies, being present at those made at both hospitals. The instruction in pathological histology, including the diagnosis of tumors, is continued throughout the year. Each student, provided with a microscope, the necessary instruments and reagents, prepares the various objects and submits them for explanation and criticism. The formation of small classes for special work and the individual pursuit of original investigations are encouraged.

The school possesses a large number of microscopes for the use of those students whose means will not permit the purchase of an instrument.

Materia Medica and Therapeutics. — Materia Medica is taught by lectures and recitations with exhibition of medicines and pharmaceutical processes. Besides the large and complete cabinet of materia medica in

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the Museum, a collection of officinal drugs and chemicals, and of all the important preparations is placed where it can be seen by the students at any time. The physiological action of drugs and their application to disease is taught in the third year by a course of lectures upon Therapeutics and by recitations and demonstrations.

The Theory and Practice of Medicine. — Lectures, recitations, and hospital visits.

Clinical Medicine. — Daily instruction is given in this department by hospital visits and other exercises. Students are furnished with cases for personal examination, and are called upon to report them before the class, where they are criticised. These examinations are held both in the wards and in the amphitheatre. Another exercise, known as the clinical conference, affords an opportunity for more thorough preparation of cases, more time being allowed for their study. The full written report of a case is read by the student who has examined it. It is afterwards criticised by the class, by the Assistant Professor of Clinical Medicine, and other teachers in the School. In addition to this, a regular course of supplementary instruction is given in Auscultation and Percussion, and in Laryngoscopy, which affords students an abundant opportunity for acquiring a thoroughly practical knowledge of these methods of exploration.

Surgery. — Lectures and recitations. There are also courses on Surgical Anatomy, Minor Surgery, Orthopedic Surgery, Surgical Histology, Bandaging, and Operative Surgery. In the last, students of the third and fourth classes are supplied with material for repeating the usual surgical operations.

Clinical Surgery. — Instruction in Clinical Surgery is given at the Massachusetts General Hospital and City Hospital, each week throughout the year, as follows: —

One clinical conference, one clinical lecture, two visits in the hospital wards, and two public operating days.

The surgical clinical conference is an exercise at which a student of the third class presents an elaborate and carefully prepared paper on a surgical case in the hospital wards, which has been assigned him. This paper he is obliged to read in the amphitheatre of the Hospital before the whole class, and defend it from their criticism. At the close of the exercise the Professor of Clinical Surgery gives a résumé of the case and his opinions upon it. The students of the second class attend these exercises preparatory to their active participation in them in their third year.

The clinical lecture is given either over surgical cases brought into the amphitheatre and illustrated by explorations or operations, or at the bedside in the wards illustrating the dressing of wounds, the treatment of fractures, and the progress of cases from entrance to discharge from the

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Hospital. Every candidate for a degree is required to report a case in clinical surgery.

Obstetrics. — Lectures and recitations. Students are required to take charge of cases of obstetrics in their third year. A course on operative obstetrics, with practical illustrations on the cadaver, is given during the second half-year.

Diseases of Women. — Lectures, recitations, and practical instruction at the different dispensaries in the education of the touch. In these institutions every facility is given the student to become familiar with the different forms of uterine disease. A course in operative gynaecology extending throughout the year at the Free Hospital for Women is open to students of the third and fourth classes. To students of the fourth class and to postgraduates cases are assigned for personal examination; these cases are reported in full at the clinical conference, and are made the subject of discussion by members of the class and the instructor. These students are also called upon to assist at the operations in the operative course.

Diseases of Children. — Lectures and clinical instruction.

Ophthalmology. — A complete course is delivered upon the diseases of the eye, including clinical instruction and the use of the ophthalmoscope.

Dermatology is taught by lectures and clinical illustrations. The special out-patient department at the Massachusetts General Hospital furnishes ample opportunities for illustration.

Syphilis. — Recitations and clinical instruction.

Otology. — Lectures and clinical instruction.

Laryngology. — Lectures and demonstrations.

Diseases of the Nervous System. — Lectures and demonstrations.

Legal Medicine. — Lectures, recitations, and demonstrations.

Embryology and Histology. — Lectures.

Hygiene. — Lectures and demonstrations.

TEXT-BOOKS.

The following works are recommended as text-books, and for collateral reading and consultation: —

Anatomy.

Text-Books. — Gray (11th edition). Quain (9th edition). Wilson. Holden's Landmarks. Dwight's Frozen sections of a Child. Treves' Applied Anatomy. Stöhr's Lehrbuch der Histologie.

Collateral Reading — Harrison Allen's Anatomy. Tillaux, Anatomie topographique. Dwight's Anatomy of the Head. Holden's Osteology. Humphrey's Human Skeleton. Morris, on the Joints. Klein's Atlas of Histology. Foster and Balfour's Embryology. Weisse's Practical Human Anatomy. Klein's Histology. Whitman's Methods in Microscopic Anatomy. Carnoy's Biologie cellulaire. Haddon's Introduction to Embryology.

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Physiology.

Text-Books.—Dalton's Human Physiology. Foster's Text-book of Physiology. Martin, The Human Body. Kirke's Handbook of Physiology.

Collateral Reading. — Pavy, on Food and Dietetics. Fick, Compendium der Physiologie. Gamgee's Physiological Chemistry of the Animal Body. McGregor-Robertson's Elements of Physiological Physics. Landois' Manual of Human Physiology.

General Chemistry.

Text-Books. — Bartley's Medical Chemistry.

Collateral Reading. — Miller's, Roscoe and Schorlemmer's, or Fownes' Chemistry. Douglass and Prescott's, or Fresenius' Qualitative Analysis.

Medical Chemistry.

Text-Books. — Tyson, Practical Examination of Urine. Wharton and Stillé's Medical Jurisprudence, Vol. II., on Poisons, 4th edition.

Collateral Reading. — Ultzmann and Hoffmann's Atlas der Harnsedimente. Neubauer and Vogel, Analysis of the Urine. Hoppe-Seyler, Physiologische Chemie. Taylor on Poisons. Wormley's Micro-Chemistry of Poisons.

Materia Medica.

Text-Books. — Brunton's Pharmacology, Therapeutics, and Materia Medica. Edes' Materia Medica and Therapeutics. Bruen, Management of Diet.

Collateral Reading. — H. C. Wood's Therapeutics. Ringer's Therapeutics. Binz, Vorlesungen über Pharmakologie.

Pathological Anatomy.

Text-Books. — Ziegler's Pathological Anatomy and Pathogenesis. Orth's Compend of Diagnosis in Pathological Anatomy.

Collateral Reading. — Friedlaenders Use of the Microscope in Clinical and Pathological Examinations. Coats's Manual of Pathology.

Therapeutics.

Text-Books. — H. C. Wood's Therapeutics. Chamber's Manual of Diet.

Collateral Reading. — Stillé's Therapeutics and Materia Medica. Bartholow's Materia Medica and Therapeutics Ringer's Therapeutics.

Obstetrics.

Text-Books. — Lusk's Manual of Midwifery.

Collateral Reading. — Schroeder's Manual of Midwifery. Cazeaux's Midwifery. Winckel's Diseases of Childbed. Schauta's Grundriss der operativen Geburtshilfe. Kucher's Puerpural Convalescence.

Theory and Practice.

Text-Books. — Strümpell's Text-Book of Medicine.

Collateral Reading. — Pepper's System of Practical Medicine by American authors. Flint's Practice of Medicine. Cutler and Garland's Percussion Outlines.

Clinical Medicine.

Text Books. — Flint's Practice of Medicine. Flint's Manual of Percussion and Auscultation.

Collateral Reading. — Same as in Theory and Practice.

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SURGERY.

Text-Books. — Bryant's Practice of Surgery. Billroth's Surgical Pathology. Smith's Operative Surgery.

Collateral Reading. — Holmes's System of Surgery. The International Encyclopedia of Surgery. Van Buren and Keyes's Genito-urinary Organs and Syphilis. Guérin, Éléments de Chirurgie Opératoire.

GYNAECOLOGY.

Text-Books. — Thomas, on the Diseases of Women. Fifth Edition.

Collateral Reading. — Emmet's Principles and Practice of Gynaecology. Klob's Pathological Anatomy of the Female Sexual Organs. Savage, The Surgery, Surgical Pathology, and Surgical Anatomy of the Female Pelvic Organs.

OPHTHALMOLOGY.

Text-Books. —Williams, Soelberg Wells, Nettleship, Zehender. Loring, on the Ophthalmoscope. Landolt, on Refraction and Accommodation.

INSTRUCTION FOP 1887–88 TO STUDENTS OF THE THREE YEARS' COURSE.

Anatomy.

Descriptive Anatomy. *Four times a week.* Professor DWIGHT.

Practical Anatomy, with Exercises in Dissection. *Eight hours daily from October 15th till May.* Demonstrations and Recitations. Assistant Professor M. H. RICHARDSON, and Drs. MIXTER, NEWELL, and CONANT.

Topographical and Advanced Anatomy. *Once a week.* Professor DWIGHT. Topographical and Applied Anatomy. *From November till May.* Assistant Professor M. H. RICHARDSON.

Laboratory Exercises in Histology. *Twice a week.* Assistant Professor C. S. MINOT, and Dr. QUINCY.

Histology. *Once a week during the first half-year.* Assistant Professor C. S. MINOT. Embryology. *Eight lectures during the second half-year.* Assistant Professor C. S. MINOT.

Physiology.

Systematic and Experimental Physiology. *Four times a week.* Professor BOWDITCH.

Laboratory Exercises in Experimental Physiology. *Twice a week.* Dr. J. W. WARREN.

Chemistry.

Descriptive and Analytical Chemistry. *Twice a week, with an additional weekly exercise during the first ten weeks.* Assistant Professor HILLS.

Medical and Toxicological Chemistry. *Twice a week.* Professor WOOD. Practical Exercises in the Laboratory in Analytical and Medical Chemistry. *Daily.* Professor WOOD, Assistant Professor HILLS, and Drs. EMERSON and HARRINGTON.

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Materia Medica and Therapeutics.

Materia Medica, with the Exhibition of Drugs. *Twice a week during the second half-year.* Assistant Professor F. H. WILLIAMS.

Therapeutics, with Demonstrations. *Twice a week.* Recitations. *Once a week.* Assistant Professor F. H. WILLIAMS.

Hygiene.

Lectures and Demonstrations. *Once a week during the second half-year.* Dr. HARRINGTON.

Pathology and Pathological Anatomy.

General Pathology and Pathological Anatomy. *Twice a week.* Professor FITZ.

Special Pathological Anatomy, with Demonstrations. *Twice a week.* Professor FITZ.

Laboratory Exercises in Pathological Histology. *Twice a week.* Drs. WHITNEY and GANNETT.

Practical Instruction in Performing Autopsies. *Throughout the year.* Professor FITZ and Dr. GANNETT.

Surgery.

Surgery. *Once a week.* Professor CHEEVER.

Surgical Pathology. *Once a week till January.* Professor J. C. WARREN.

Surgical Conference. *Once a week from November till May.* Professor PORTER.

Clinical Surgery. Lectures. *Once a week till January.* Professor CHEEVER. *Once a week from January till March.* Professor PORTER. *Once a week from March till June.* Professor J. C. WARREN.

Operative Surgery and Surgical Anatomy. Illustrative Exercises. *Twice a week in March and April.* Professor PORTER.

Operative Surgery, *Fifteen practical exercises.* Professor PORTER assisted by Dr. MONKS.

Recitations in Surgery and Surgical Pathology. *Once a week.* Professor J. C. WARREN.

Application of Bandages and Apparatus. *Laboratory exercises to the class in sections, after February.* Professor J. C. WARREN and Dr. BURRELL.

Surgical visits are made at the Massachusetts General Hospital by Professors PORTER and J. C. WARREN, Assistant Professor M. H. RICHARDSON, and Drs. BEACH, HOMANS, and CABOT. — At the City Hospital, by Professor CHEEVER and Drs. GAY, BOLLES, BRADFORD, POST, and GAVIN. — The Surgical Cases at the Eye and Ear Infirmary and at the Boston Dispensary are shown by the surgeons in charge.

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Ophthalmology.

Diseases of the Eye. *Twice a week during the first half-year.* Professor H. W. WILLIAMS.

Clinical Ophthalmology. *Once a week till January, and after March.* Professor H. W. WILLIAMS.

Dermatology.

Diseases of the Skin. *Once a week.* Professor WHITE.

Clinical Dermatology. *Once a week.* Professor WHITE.

Syphilis.

Practical Diagnosis and Treatment of Syphilis. *Once a week for a half-year.* Dr. POST.

Otology.

Otoscopy. *Once a week in November.* Dr. BLAKE.

Clinical Otology. *Once a week from November till April.* Drs. J. O. GREEN and BLAKE.

Special Pathology and Therapeutics.

Theory and Practice of Physic. *Twice a week.* Professor F. MINOT.

Recitations. *Twice a week.* Dr. F. C. SHATTUCK.

Clinical Medicine. *Twice a week.* Assistant Professor WHITTIER.

Clinical Conference. *Once a week.* Assistant Professor WHITTIER, and Drs. GARLAND, G. B. SHATTUCK, and VICKERY.

Practical Instruction in Auscultation and Percussion. *Five times a week during the first half-year.* Drs. GARLAND, CUTLER, and GANNETT.

Practical Diagnosis and Treatment of Diseases of the Larynx. *Six times a week, first half-year.* Assistant Professor KNIGHT.

Practical Diagnosis and Treatment of Diseases of Children. *Twice a week.* Dr. ROTCH.

Practical Diagnosis and Treatment of Diseases of the Nervous System. *Once a week.* Dr. PUTNAM.

Mental Diseases. *Once a week.* Dr. FISHER.

Legal Medicine. *Twenty-four lectures.* Assistant Professor DRAPER.

Medical visits are made at the Massachusetts General Hospital by Professors FITZ and W. L. RICHARDSON, Assistant Professor WHITTIER, and Drs. ABBOT, TARBELL, and F. C. SHATTUCK. — At the City Hospital, by Drs. J. G. BLAKE, LYMAN, DOE, MASON, SUMNER, G. B. SHATTUCK, FORSTER, FOLSOM, and DENNY. — At the Danvers, South Boston, and Somerville Asylums for the Insane. — The Medical Cases at the Boston Dispensary are shown by the physicians in charge.

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Obstetrics.

Theory and Practice of Obstetrics. *Twice a week.* Professor W. L. RICHARDSON. Recitations. *Once a week.* Dr. C. M. GREEN.

Operative Obstetrics. *Twelve practical exercises.* Dr. C. M. GREEN.

Practical Instruction in Clinical Obstetrics. *Throughout the year.* Dr. C. M. GREEN.

Gynaecology.

Twice a week. Assistant Professor BAKER. Two clinics each week during the second half-year. Assistant Professor BAKER. Two clinics each week during the first half-year. Dr. DAVENPORT.

INSTRUCTION FOR 1887-88 TO STUDENTS OF THE FOURTH YEAR.

Clinical Medicine.

Twice a week for one month. Professor FITZ. *Once a week for four months.* Dr. G. B. SHATTUCK. *Once a week for four months.* Dr. F. C. SHATTUCK. *Twice a week for two months. Once a week for five months.* Dr. GARLAND. *Once a week for two months.* Dr. ABBOT. *Twice a week for two months. Once a week for two months.* Dr. TARBELL. *Once a week for five months.* Dr. GANNETT. *Once a week for one month. Twice a week for one month.* Dr. CUTLER. *Once a week for two months.* Dr. VICKERY.

Diseases of Children.

Twice a week for eight months. Dr. ROTCH. *Five times a week for two months.* Drs. ROTCH and BUCKINGHAM.

Diseases of the Nervous System.

Four times a week for three months. Twice a week for two months. Dr. PUTNAM.

Mental Diseases.

Once a week for four months. Dr. FISHER. *Once a week for two months.* Dr. COWLES.

Surgery.

Clinical Surgery. *Once a week for two months.* Professor CHEEVER. *Once a week for four months.* Professor PORTER. *Once a week for four months.* Professor J. C. WARREN. *Twice a week for one month.* Assistant Professor M. H. RICHARDSON. *Twice a week for three months.* Dr. BEACH. *Twice a week for two months.* Dr. GAY. *Once a week for four months.* Dr. BOLLES. *Twice a week for four months.* Dr. BURRELL. *Twice a week for one month.* Dr. ELLIOT. *Once a week for*

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two months. Dr. WATSON. *Once a week for three months.* Dr. WEST. *Once a week for one month.* Dr. MIXTER. *Once a week for one month, twice a week for two months.* Dr. F. B. HARRINGTON.

Operative Surgery. *Practical Exercises.* Professor PORTER, Assistant Professor M. H. RICHARDSON, and Drs. MIXTER and MONKS.

Orthopedic Surgery. *Twice a week for three months.* Dr. BRADFORD.

Ovarian Tumors.

Once a week for two months. Dr. HOMANS.

Obstetrics.

Clinical Obstetrics. *Twice a week for five months.* Professor W. L. RICHARDSON.

Operative Obstetrics. *Practical Exercises.* Dr. C. M. GREEN.

Gynaecology.

Once a week (two hours) for eight months. Assistant Professor BAKER. *Twice a week for two months. Once a week for one month.* Dr. DAVENPORT. *Twice a week for six months; once a week for two months.* Dr. STRONG. *Once a week for three months.* Dr. LYMAN. *Once a week for five months.* Dr. DOE. *Twice a week for two months.* Dr. SWIFT. *Twice a week for two months.* Dr. ELLIOT.

Operative Gynaecology. *Practical Exercises.* Assistant Professor BAKER.

Dermatology.

Three times a week for eight months. Professor WHITE.

Syphilis.

Once a week for eight months. Dr. GREENOUGH.

Ophthalmology.

Twice a week for five months. Professor H. W. WILLIAMS. *Twice a week for four months.* Dr. WADSWORTH.

Otology.

Twice a week for three months. Dr. C. J. BLAKE. *Twice a week for six months.* Dr. J. O. GREEN.

Laryngology.

Four times a week for three months. Assistant Professor KNIGHT.

Diseases of the Genito-Urinary Apparatus.

Once a week for four months. Dr. CABOT. *Once a week for four months.* Dr. WATSON. *Once a week for three months.* Dr. TILDEN.

Diseases of the Rectum.

Once a week for eight months. Dr. HODGES.

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Legal Medicine.

Once a week for eight months. Assistant Professor DRAPER. *Demonstrations.* Dr. HARRIS.

Hygiene.

Twice a week for two months. Dr. DURGIN.

Vaccination.

Once a week for one month. Dr. DURGIN.

Bacteriology.

Once a week for four months. Dr. ERNST.

Clinical Microscopy.

Once a week for four months. Professor FITZ and Dr. WHITNEY.

Cookery.

Twice a week (two hours) for one month. Boston Cooking School.

CLINICAL ADVANTAGES.

The Medical Department of the University is established in Boston, in order to secure those advantages for Clinical Instruction and for the study of Practical Anatomy which are found only in large cities.

There are Hospital visits or operations daily.

The Massachusetts General Hospital. — During the past year, 2,756 patients were treated in the wards, and 17,925 in the out-patient departments. Patients are received from all parts of the United States and the Provinces, and are visited by the students, with the attending physicians and surgeons, on four days in the week. Operations are numerous, and are performed in the amphitheatre, which is provided with seats for 400 persons. Clinics in the following special branches have been established in connection with the out-patient department: Dermatology, Laryngology, Diseases of the Nervous System, and Ophthalmology.

The City Hospital. — During the past year, 5,368 cases were treated in its wards, and 12,733 in its various out-patient departments. The medical wards always contain many cases of acute diseases, and changes are taking place constantly. The opportunities for seeing fractures, injuries, and traumatic cases of all kinds are excellent, since, on an average, 800 street accidents are yearly treated. Surgical operations are performed in the amphitheatre. Diseases of the eye, the ear, and the skin are largely treated in the out-patient department. Clinical instruction is given by the physicians and surgeons twice a week.

In these two hospitals, the facilities for witnessing Operative Surgery are unsurpassed. Twice a week operations are performed in the presence of the class. The number of these operations is large, reaching

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nearly two thousand a year. The variety is great, embracing every surgical disease and injury, including the surgical operations on the eye and ear.

The Boston Dispensary. — 42,488 patients were treated at this Public Charity during the past year. A new building has lately been erected at a cost of $50,000, where students have ample and excellent opportunity for seeing practical work in the diagnosis and treatment of cases illustrating the various branches of medicine and surgery.

The Massachusetts Charitable Eye and Ear Infirmary. — The nine thousand patients annually treated at this institution present every variety of disease of the ear and eye, and supply a large number of operations.

The Marine Hospital at Chelsea receives from the shipping of the port a large number of patients, who furnish examples of the diseases of foreign countries and of distant parts of the United States. Many cases of venereal disease, in its various forms, are treated annually.

The Free Hospital for Women. — In the wards of this institution, which is devoted exclusively to the diseases peculiar to women, abundant opportunity is offered to study the severer forms of uterine disease and to witness operations, which are performed once a week throughout the year.

Students are also permitted to visit the Children's Hospital and the Carney Hospital on application to the physicians on duty.

There are twenty-five appointments annually for Internes in the various hospitals, and as many more for Assistants in the out-patient departments. Appointments for the Massachusetts General and City Hospitals are for the term of eighteen months, for the Boston Lying-in Hospital for four months, and for the Free Hospital for Women for nine months.

EXAMINATIONS.

The regular examinations are conducted in writing and orally, and are held at the end of each year in June, and a week before the opening of the School in September, on the studies of the preceding year.* They are held in the following order: —

At the End of the First Year. — Anatomy, Physiology, General Chemistry,† and Materia Medica.

End of Second Year. — Anatomy, Medical Chemistry, and Pathological Anatomy.

End of Third Year. — Therapeutics, Obstetrics,‡ Theory and Practice of Medicine, and Surgery.‡

* The June examination is for those only who are members of the School at the time, and for those entitled to apply for the degree.

† See foot-note on page 211.

‡ The examinations in Obstetrics and Surgery may be passed at the end of the fourth year if preferred.

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End of Fourth Year. — Ophthalmology, Otology, Dermatology, Syphilis, Laryngology, Mental Diseases, Diseases of the Nervous System, Diseases of Women, Diseases of Children, Clinical and Operative Obstetrics, Clinical Medicine, Clinical and Operative Surgery, and Legal Medicine.

In addition to the above examinations each student is required to present a satisfactory report of the analysis of a solution containing inorganic substances, and of a specimen of urine, to examine and report upon a clinical case in Medicine and Surgery, and to take charge of and report upon three cases in Obstetrics; each student must also have satisfactorily dissected the three parts of the body.

Students attending the four years' course may be examined at the end of the third or fourth year, as preferred, in Clinical Medicine, Clinical Surgery, and Obstetrics. The examinations of the first two years are common to both groups of students. The final examinations at the close of the three years' course are in the following subjects: Therapeutics, Obstetrics, Surgery and Clinical Surgery, Theory and Practice, and Clinical Medicine.

No student is allowed to anticipate the examinations in the regular course of studies of his year, except by special permission of the Faculty. Those who fail in any subject may again present themselves in that subject at the next regular examination.

All students are required to notify the Secretary in writing of their intention to present themselves for examination, either in June or September, one month before such examination is to be held.

The regular examinations for the year 1887–88 will begin June 4 and September 24.

The following was the order of the examinations held in June, 1887: —

Monday (June 6), Therapeutics; *Tuesday*, Ophthalmology, Otology, Laryngology, and Syphilis; *Wednesday*, Surgery; *Thursday*, Clinical and Operative Obstetrics, Diseases of Children, and Diseases of Women; *Friday*, Anatomy; *Saturday*, Obstetrics; *Monday* (June 13), Clinical Medicine; *Tuesday*, Dermatology, Operative Surgery, and Clinical Surgery; *Wednesday*, Pathological Anatomy; *Thursday* Diseases of the Nervous System, Mental Diseases, and Legal Medicine; *Friday*, General Chemistry; *Saturday*, Theory and Practice; *Monday* (June 20), Medical Chemistry; *Tuesday*, Materia Medica; *Wednesday*, Advanced Anatomy; *Thursday*, Physiology.

DIVISION OF STUDENTS.

Students are divided into four classes, according to their time of study and proficiency, and during their last year will receive largely increased opportunities of instruction in the special branches mentioned. Students

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following the three years' course are classified as heretofore, and the instruction in the special branches is of the same character as that which has been given for several years. Students who began their professional studies elsewhere may be admitted to advanced standing; but all persons who apply for admission to the advanced classes must pass an examination in the branches already pursued by the class to which they seek admission, and furnish a satisfactory * certificate of time spent in medical studies. No student may advance with his class, or be admitted to advanced standing, until he has passed the required examinations in the studies of the previous year, or a majority of them; nor may he become a member of the third class, until he has passed all the examinations of the first, in addition to a majority of those of the second year, or of the fourth class, until he has passed all of the examinations of the first and second, in addition to a majority of those of the third year.

In order that the time of study shall count as a full year, students of all classes must present themselves within the first week of the School year and register their names with the Secretary.

Students who do not intend to offer themselves for a degree will, however, be received for any portion of the course.

Any student may obtain a certificate of his period of connection with the School.

LIBRARIES.

The students have access, free of charge, to the books belonging to the library of the School and to the libraries of the several departments.

The College Library at Cambridge is open to the students of the Medical School.

The Boston Public Library, which contains a large collection of medical books is open to students who are inhabitants of Boston. Students, not inhabitants of Boston, who have filed a bond at the Treasurer's office, or deposited with the Treasurer the sum of fifty dollars, may also use this library.

REQUIREMENTS FOR THE DEGREE.

Every candidate must be twenty-one years of age, and of good moral character; must give evidence of having studied medicine three or four full years; have spent at least one continuous year at this School; and have passed the required examinations.

* Certificates from teachers who practise any peculiar or exclusive system of medicine are not accepted. The following is the form of certificate required: —

"This certifies that —— has studied medicine under my personal instruction for —— months from —— 188– to —— 188–."

After Sept. 1, 1889, no certificate of time spent in medical study will be accepted except from a recognized Medical School,

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The course of study recommended by the Faculty covers four years; but, until further notice, the Degree of Doctor of Medicine will be given as heretofore, upon the completion of three years of study, to applicants who have passed satisfactorily the above requirements.

The degree of Doctor of Medicine *cum laude* will be given to candidates who have pursued a complete four years' course, and obtained an average of seventy-five per cent* upon all the examinations above stated. A certificate of attendance on the studies of the fourth year will be given to such graduates as have attended the course, and have passed a satisfactory examination in the studies of the same.

The presentation of a thesis is not a requirement for graduation, but candidates for the degree of M.D. may present a voluntary thesis. If of conspicuous merit, it will receive honorable mention; if also of a suitable character, it may be read at the University Commencement exercises. Theses must be completed and delivered to the Dean on or before the first day of June.

The degree of Master of Arts is open to graduates of the School who are also Bachelors of Arts of Harvard College, and to Bachelors of Arts of other Colleges who shall be recommended by the Faculty of Harvard College. Candidates must pursue an approved course of study in Medicine for at least one year after taking the degree of Doctor of Medicine. Students who have taken the four years' course, and have passed the examinations "with high credit," may obtain the degree of Master of Arts by presenting their applications to the Faculty on or before the first of June in the year of their final examinations.

ANATOMICAL PRIZE.

Professor C. B. PORTER offers a prize of fifty dollars, open to all students, and graduates of not more than five years' standing, except teachers of anatomy, for the best dissection deserving the award illustrative of surgical anatomy, the specimen to be presented to the Museum.

PECUNIARY AID.

Four yearly scholarships, of the value of $200 each, have been established by the Faculty, and are open to meritorious students who have been at the School for at least one year. The two Barringer scholarships, of the value of $300 and $200 respectively, will be awarded to deserving students, preferably those of the fourth class. Only those needing assistance are expected to apply; and of such, those holding the highest rank will have the preference.

* In computing averages all examinations will be reduced to a basis of three hours.

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FEES AND EXPENSES.

For matriculation, five dollars; for a year, two hundred dollars, (if in two payments, at the first, one hundred and twenty dollars; at the second, eighty dollars); for a half-year alone, one hundred and twenty dollars; for graduation, thirty dollars. During the first two years there are the following additional expenses: Two dollars for each of the three parts required for dissection; and six dollars per year for chemical material, in addition to the charge for breakage of glass apparatus. Of students who do not pay in advance, a bond for $300, executed by two sufficient bondsmen, one of whom must be a citizen of the United States, is required. A copy of such bond will be sent, on application to the Secretary of the Faculty, and all students are recommended to deposit such a bond. To students depositing bonds, term-bills will be presented one week before the end of the first term, to be paid within two weeks; and also one week or more before Commencement, to be paid on or before the beginning of the next academic year. Such students will be held responsible for the payment of fees until they have notified the Dean of their intention to withdraw from the School, and have subsequently received their bond from the Treasurer.* Whenever a student is obliged to withdraw from the School before the last four weeks of a half-year for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Faculty, it shall be recommended that he be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction — this remission to date from the reception by the Dean of a written notice of the student's withdrawal from the School. No degree can be conferred till all dues to the School are discharged. The student's general expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. The janitor of the Medical School will always have a list of boarding-houses in the vicinity of the School building, varying in their rates of charges from five to ten dollars a week.

COURSE OF STUDY FOR GRADUATES.

For the purpose of affording to those who are already graduates in medicine additional facilities for pursuing clinical, laboratory, and other studies, for which they had not previously found leisure, in such subjects as may especially interest them, and as a substitute in part for the opportunities heretofore sought in Europe, the Faculty have established a post-graduate course, of which the following is a programme. The fee in each branch is for a single half-year.

* The Treasurer's office is at 50 State St., Boston.

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Anatomy. — Opportunities for advanced study and for special investigations. Fee, $30.

Histology. — The various methods of examining the different tissues are employed, and opportunities for original research are offered. Fee, $20.

Physiology. — Opportunities for original investigation in the Physiological Laboratory. Fee, $30.

Medical Chemistry. — Practical instruction in the Chemical Laboratory, in the analysis of the urine and other animal fluids in health and disease, and of poisons; examination of blood-stains and other objects connected with medico-legal investigations, with the application of the microscope to these processes. General analysis, also, if desired. Laboratory-fee, $30.

Hygiene. — Practical instruction in the Laboratory in the examination of water, air, articles of food and drink for the detection of adulteration, soils, etc., and opportunities for special work are offered. Laboratory-fee, $25.

Pathological Anatomy. — Instruction in Pathological Histology and the examination of specimens in the Microscopical Laboratory. Practice in making post-mortem examinations. Fee, $20.

Bacteriology. — Practical instruction in the Laboratory Fee, $15.

Surgery. — A practical course of operative surgery, and instruction in the application of bandages and apparatus. Fee, $25.

Laryngology. Lectures and clinical exercises. Fee, $20.

Ophthalmology. — Clinical instruction, lectures on diseases of the eye, and demonstrations of the methods of performing operations. Exercises in the use of the ophthalmoscope. Fee, $25.

Otology. — Lectures and clinical instruction in diseases of the ear. Fee, $15.

Dermatology. — Clinical instruction in diseases of the skin, illustrated by patients in this department of the Massachusetts General Hospital. Lectures. Fee, $25.

Syphilis. — Clinical instruction at the Boston Dispensary. Fee, $15.

Diseases of the Nervous System. — Lectures and practical instruction in the diagnosis and treatment of diseases of the nervous system. Fee, $15.

Gynaecology. — Clinical instruction in diseases of women, and a practical course of operative gynaecology. Fee, $25.

Obstetrics. — Cases supplied, and clinical instruction given. A course on operative obstetrics. Fee, $25.

Diseases of Children. — Lectures and clinical instruction. Fee, $25.

Those pursuing this course may elect the studies to which they will give their attention, and allot the time they will devote to each. They will be exempt, unless at their option, from examinations, and may obtain a certificate of attendance on this course of advanced study. On payment of the full fee for the course, they will have the privilege of attending

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any of the other exercises of the Medical School, the use of its laboratories and library, and all other rights accorded by the University.

Graduates of other medical schools may obtain the degree of M.D. at this University, after a year's continuous study in this School. The required examinations are those of the three years' course, and may be passed in such order as is desired, but only at the stated seasons.

The fee for a year is	$200
" for a half-year	$120

For any of the special courses, such fees as are above specified.

For further information or catalogue, address Dr. H. P. BOWDITCH, *Dean*, Harvard Medical School, Boston, Mass.

☞ The Medical School is on Boylston Street, Boston.

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BOYLSTON MEDICAL PRIZES.

These prizes, open to public competition, are offered annually for the best dissertations on questions in medical science proposed by the Boylston Medical Committee.

For 1888 two prizes are offered: —

1. A prize of four hundred and fifty dollars for the best dissertation embodying *The Result of Original Work in Anatomy, Physiology or Pathology.* The subject to be chosen by the writer.

2. A prize of one hundred and fifty dollars for the best dissertation on *Pneumonia in its relation to Affections of the Nervous System.*

Dissertations on these subjects must be sent post-paid to W. F. Whitney, M.D., Harvard Medical School, Boston, Mass., on or before *Wednesday, April 4, 1888.*

For 1889 two prizes are offered: —

1. A prize of two hundred dollars for the best dissertation on the question, *May the cause of Typhoid Fever in the Human species originate in Animals other than Man?*

2. A prize of one hundred and fifty dollars for the best dissertation on *The Effect of Desiccation on the life of Animal and Vegetable Tissues.*

Dissertations on these subjects must be sent to the same address as above on or before *Wednesday, April 3, 1889.*

In awarding these prizes preference will be given to dissertations which exhibit original work, but if no dissertation is considered worthy of a prize, the award may be withheld.

Each dissertation must bear in place of its author's name some sentence or device and must be accompanied by a sealed packet bearing the same sentence or device and containing within the author's name and residence. *Any clew by which the authorship of a dissertation is made known to the committee will debar such dissertation from competition.*

Dissertations must be written in a distinct and plain hand, and their pages must be bound in book form.

All unsuccessful dissertations are deposited with the Secretary, from whom they may be obtained, with the sealed packet unopened, if called for within one year after they have been received.

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By an order adopted in 1826, the Secretary was directed to publish annually the following votes: —

1. That the Board do not consider themselves as approving the doctrines contained in any of the dissertations to which premiums may be adjudged.

2. That in case of publication of a successful dissertation, the author be considered as bound to print the above vote in connection therewith.

The Boylston Medical Committee is appointed by the President and Fellows, and consists of the following physicians: — GUSTAVUS HAY, M.D., *President*, ROBERT T. EDES, M.D., SAMUEL G. WEBBER, M.D., H. P. BOWDITCH, M.D., FRANK W. DRAPER, M.D., J. COLLINS WARREN, M.D., EDWARD S. WOOD, M.D., WILLIAM F. WHITNEY, M.D., *Secretary*, F. H. WILLIAMS, M.D.

The address of the *Secretary* is WILLIAM F. WHITNEY, M.D., Harvard Medical School, Boston, Mass.

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THE DENTAL SCHOOL,

BOSTON.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*
THOMAS H. CHANDLER, D.M.D., *Dean, and Professor of Mechanical Dentistry.*
DAVID W. CHEEVER, M.D., *Professor of Surgery.*
HENRY P. BOWDITCH, M.D., *Professor of Physiology.*
THOMAS DWIGHT, M.D., *Professor of Anatomy.*
THOMAS FILLEBROWN, M.D., D.M.D., *Professor of Operative Dentistry.*
GEORGE F. GRANT, D.M.D., *Instructor in Treatment of Cleft Palate and Cognate Diseases.*
CHARLES WILSON, D.M.D., *Instructor in Orthodontia.*
CHARLES A. BRACKETT, D.M.D., *Professor of Dental Pathology and Therapeutics.*
WILLIAM B. HILLS, M.D., *Assistant Professor of Chemistry.*
MAURICE H. RICHARDSON, M.D., *Assistant Professor of Anatomy.*
EDWARD C. BRIGGS, M.D., D.M.D., *Instructor in Dental Materia Medica.*

OTHER INSTRUCTORS.

HORATIO C. MERIAM, D.M.D., *Instructor in Operative Dentistry.*
ALLSTON G. BOUVÉ, D.M.D., *Instructor in Operative Dentistry.*
GEORGE H. MONKS, M.D., *Instructor in Surgical Pathology.*
DANIEL F. WHITTEN, D.M.D., *Instructor in Operative Dentistry.*
JERE E. STANTON, M.D., D.M.D., *Instructor in Oral Pathology and Anatomy.*
WILLIAM P. COOKE, D.M.D., *Instructor in Operative Dentistry.*
EDWARD E. HOPKINS, D.M.D., *Instructor in Operative Dentistry.*
JOSEPH E. WAITT, D.M.D., *Demonstrator of Mechanical Dentistry.*
EDWIN L. SHATTUCK, D.M.D., *Demonstrator of Operative Dentistry.*

Clinical Instructors in Operative Dentistry, 1886-87.

JOHN J. CODMAN, D.M.D.
EBEN F. WHITMAN, D.M.D.
FOREST G. EDDY, D.M.D.
J. F. ADAMS, D.D.S.

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STUDENTS.

Third Year.

NAME.	RESIDENCE.	PRESENT ADDRESS.*
Briggs, Charles Poor, A.B. 1883, M.D. 1887,	*Boston*,	433 Marlboro'gh St.
Geist, George Pierce,	*Frankfürt am Main*,	147 W. Newton St.
Graves, Frederick Payne,	*Saco, Me.*	355 Columbus Ave.
Grünewald, Paul,	*Frankfürt am Main*,	54 Hancock St.
Holmes, Ellis Proctor,	*Whitman*,	Whitman.
Hopkins, Frederick Sylvanus,	*Worcester*,	Newtonville. [Bost.
Kelley, Henry Allen,	*New Bedford*,	534 Broadway, So.
Read, Thomas George, L.D.S. (*London Dental Hospital*) 1887,	*London, Eng.*	19 W. Cedar St.
Titcomb, Charles Bryant,	*San Francisco, Cal.*	25 Hancock St.
Twitchell, Frederick Ervin,	*Nashua, N H.*	Nashua, N. H.
Young, Carlos Aubrey,	*Boston*,	1 Oxford Terrace.

Second Year.

Arnold, Fred Anthony,	*Bristol, R. I.*	Providence, R. I.
Bixby, Henry Oliver,	*Milford, N. H.*	564 Broadway, So. Boston.
Clinch, William Chesley,	*Cambridgeport*,	Hotel Stratford, Cambridgeport.
Gay, William Frederick,	*Boston*,	7 Milford Pl.
Hammond, Frank Irving,	*Providence, R. I.*	Providence, R. I.
Jones, William Russell,	*Northampton*,	369 Harvard St., Cambridge.
Lombardino, William,	*Berlin, Germany*,	56 Clarendon St.
Moriarty, Patrick William,	*Boston*,	37 Lynde St.
O'Leary, William Curran,	*Boston*,	40 Gray St. [erville.
Osgood, Arthur Henry, A.B. 1887,	*Somerville*,	Highland Av., Som-
Pond, Charles Greenleaf,	*Boston*,	23 Oak St.
Shepard, Caleb Heath,	*Bath, Me.*	23 Pinckney St.
Stevenson, Frederick Arnold,	*Reading, Eng.*	86 Kirkland St., Cambridge.
Wetzel, Eugene Jakob,	*Boston*,	411 Columbus Ave.

First Year.

Denne, William,	*London, Eng.*	1 Oxford Terrace.
Keith, Victor Watson,	*E. Bridgewater*,	Felton Building 8, Cambridge.

* Addresses are in Boston, unless stated to be elsewhere.

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Kirby, Harold,	*Tusket, N. S.*	3 Lawrence St.
Masuda, Kotai,	*Japan,*	Hotel Pelham.
Oldham, Arthur Judson,	*Wellesley Hills,*	Wellesley Hills.
Rolfe, Edward,	*Valparaiso, Chili,*	152 W. Newton St.
White, James Robert,	*Cambridgeport,*	58 Howard St., Cambridgeport.

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THE DENTAL SCHOOL.

The Dental Department of the University is established in Boston, in order to secure in connection with the Medical Department those advantages for Clinical instruction which are found only in large cities.

Instruction in this School is given throughout the academic year, by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed. The year begins on the Thursday following the last Wednesday in September, and ends on the last Wednesday in June. There is a recess beginning December 23, and ending January 2; and a spring recess, beginning on the Wednesday before Fast Day and ending on the following Tuesday, both inclusive. The course of instruction is progressive, and extends over two years, the teaching of one year not being repeated in the next.

The first year is identical with that of the Harvard Medical School, the student receiving the same instruction by the same professors at the same time and place with the medical students and at the end of the year passing with them the same examinations.

It is the object of the Faculty to present a complete course of instruction in the theory and practice of Dentistry; and for this purpose a well-appointed laboratory and infirmary are provided, and such arrangements made as insure an ample supply of patients. Clinical instruction is given by the professors and other instructors; and, under the direction of demonstrators, patients are assigned to the students, insuring to all opportunity of operating at the chair, and becoming by actual practice familiar with all the operations demanded of the dentist.

The Infirmary, which is a department of the Massachusetts General Hospital, remains open, and one of the Clinical Instructors and the Demonstrator are in attendance, daily, throughout the academic year, offering to students unsurpassed facilities for acquiring practical knowledge and manipulative dexterity.

Students have access to the hospitals of the city; to the dissecting-room and museum of the Medical College; and also, *without additional charge, to the instruction given in any other department of the University, with the exception of exercises carried on in the special laboratories.*

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REQUIREMENTS FOR ADMISSION.

All candidates for admission, except those who have passed an examination for admission to Harvard College, or the Lawrence Scientific School, must present a degree in Letters, Science, or Medicine, from a recognized college or scientific school, or pass an examination in the following subjects:

1. ENGLISH. Every candidate will be required to write, legibly and correctly, an English composition of not less than two hundred words, and also to write English prose from dictation.

2. PHYSICS. A competent knowledge of Physics (such as may be obtained from Balfour Stewart's Elements of Physics).

Students may be admitted to advanced standing upon passing a satisfactory examination in a *majority* of the studies already pursued by the class.

Graduates of recognized Dental Schools will be admitted without examination to the courses of Operative and Mechanical Dentistry.

The examinations are conducted in writing. In judging the work of the candidate, the spelling, grammar and construction are considered.

The examination for admission is held at the Dental School in North Grove St., Boston, on the Monday preceding the last Wednesday in September, beginning at 10 A.M.

No person will be examined for admission at any other than the regularly appointed time.

The entrance and first-year examinations will be allowed to foreign students who have passed *equivalent* examinations abroad, upon presentation of proper certificates from the examining boards vouching for the facts.

The diploma is accepted by the English Board of Registration under the Dental Act, so that graduates of this School not British subjects can practise dentistry in Great Britain without further examination.

All persons intending to take the entrance examination must send their names to the Dean for registry at least two weeks previous to the day on which the examination is to take place.

COURSE OF INSTRUCTION.

The following are the methods of study adopted in the various departments: —

Anatomy. — Lectures, demonstrations, various practical exercises, including dissection under the direction of the Demonstrator; recitations.

Physiology. — Lectures, recitations, conferences, and practical demonstrations in the laboratory. Opportunities for work in the physiological laboratory of the new Medical School are offered to students who are qualified to carry on original investigations.

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Chemistry is taught mainly by practical work in the laboratory, the student having his own desk and apparatus. Descriptive chemistry and qualitative analysis are taught during the first year. Beside the laboratory work, there is a lecture and recitation every week.

Surgery. — Lectures and recitations in oral surgery illustrated by colored drawings and by recent and morbid specimens. All approved instruments and apparatus are exhibited and explained. Operations are performed on the living subject at the hospitals, and upon the dead body. Instruction is given in the use of anaesthetics.

Instruction in clinical surgery is given at the Massachusetts General Hospital and City Hospital every week.

Surgical Pathology. — Lectures and recitations embracing the subjects of shock, inflammation, repair, suppuration, ulceration, mortification, embolism, pyaemia, erysipelas, and tetanus.

Operative Dentistry. — The instruction in this department is both didactic and practical. The professor and other instructors endeavor to demonstrate all known methods of performing operations upon the teeth and other tissues involved.

The treatment of decay, the materials used for filling teeth, the most improved instruments and appliances used in operating upon the teeth, are appropriately discussed. Irregularities of the teeth receive special attention. Models of cases and the various appliances for treatment are shown and described. Clinics are held at the Infirmary, and every available means used to make the student practically acquainted with all the modern improvements of this important branch of dental science; but no student will be permitted to operate at the chair until he has by observation and practice on extracted teeth satisfied the Professor of his fitness.

Oral Pathology and Anatomy. — Lectures and recitations upon the minute anatomy of the teeth and their histological development, and the surgical pathology of the tissues in and about the mouth. Material is furnished for the examination of the tissues in a healthy and diseased condition, with instruction in its preparation. Instruction is given in the use of the microscope, and the preparation of objects for examination.

Dental Pathology and Therapeutics. — In the beginning of the course of lectures the general principles of pathology, including etiology, nosology, semeiology, diagnosis, and prognosis are outlined. The various pathological conditions in their relations to one another and their modifications of structure and function are considered at length. This prepares the way for the special pathology of the region with which the dentist has most to do. The general principles of medicine and their application are discussed. The diseases of the dental and contiguous tissues are con-

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sidered in detail, with reference to their nature, causes, prevention, alleviation, and cure. Instruction is also given upon those articles of the materia medica which are useful in this specialty, and the subject is illustrated by a collection of samples of drugs, including all the medicines ordinarily used in dental therapeutics.

Mechanical Dentistry. — Lectures and practical work in the laboratory; the manner in which mineral teeth are constructed, the principles and method of carving and furnace-work, and all compounds used for artificial teeth; also metallurgy, and the manner in which gold and silver plates are prepared and adapted to the mouth; the use of rubber and other articles as bases. It is the aim to teach not only the mere mechanical processes of dentistry, but that combination of art with mechanism which enables the practitioner to effect so much in restoring the symmetry of the face and usefulness of the teeth, where they have been lost or impaired by accident or disease.

TEXT-BOOKS AND BOOKS OF REFERENCE.

Text-Books.	*Reference-Books.*
Gray's or Quain's Anatomy.	Harris's Principles and Practice.
Richardson's Mechanical Dentistry.	Fresenius' or Douglas and Prescott's Qualitative Analysis.
Bryant's Surgery.	Tomes's Dental Surgery.
Billroth's Surgical Pathology.	Garretson's Oral Surgery.
Taft's Operative Dentistry.	Dunglison's Medical Dictionary.
Dalton's (6th edition) or Foster's Physiology.	Kingsley's Oral Deformities.
Bartley's Medical Chemistry.	Holden's Osteology.

EXAMINATIONS.

The regular examinations, conducted in writing, are held at the end of each year in June in the following order, viz: —

At the end of the first year in the studies of that year, — anatomy, including dissection, physiology, and general chemistry. A certificate from the Demonstrator of Anatomy will be required of each student that he has satisfactorily performed the required dissections.

At the end of the second year in the studies of that year, — oral pathology, dental materia medica and therapeutics, oral surgery and surgical pathology, operative and mechanical dentistry, except that no student shall take the examinations in operative and mechanical dentistry till the year of his graduation. The examinations in operative and mechanical dentistry will include actual operations performed during the year, and the preparation of specimens of mechanical dentistry.

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All applicants for advanced standing must pass the first year's examinations, or furnish proof that they have passed equivalent examinations in some recognized Dental or Medical School.

Examinations for advanced standing, on the studies of the preceding year, are held a week before the opening of the School in September.

No student will be allowed to anticipate the examinations in the regular course of studies of his year, except by special permission of the Faculty. Students intending to present themselves for examination must notify the Dean by letter of such intention, two weeks before the time when the examination is to be held.

Those who fail in any subject may present themselves in that subject again at the next regular examination. The regular examinations for the year 1887–88 will begin June 11 and September 24, 1888.

REQUIREMENTS FOR THE DEGREE.

The degree of Doctor of Dental Medicine (*Dentariae Medicinae Doctor*) may be conferred upon each candidate of adult age, and of good moral character; who must give evidence of having studied medicine or dentistry three full years, at least one continuous year of which must have been spent at this School. He must also have presented a satisfactory thesis, passed *all the required examinations*, and convinced the Professors of Operative and Mechanical Dentistry of his ability to meet satisfactorily the requirements of his art.

He must also deposit with the Dean, to be placed in the Museum of the School, a specimen of mechanical dentistry, or of practical or pathological anatomy, prepared during the course under the eye of the instructor.

No student may advance with his class until he has passed a satisfactory examination in a majority of the studies already pursued by his class.

Admission to advanced standing does not diminish the time (three years) to be spent in professional studies.

The Faculty recommend young men who propose to take the degree to spend the whole of the required term of three years of study in the School. But those who wish to spend but two of the three years in the School are earnestly advised to pass their first year of study, before entering, under the direction of a *competent* private instructor.

INSTRUMENTS.

With the exception of extracting instruments, lathes, and vulcanizers, each student will be required to furnish his own tools, instruments, and appliances for both laboratory and operating room.

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LIBRARIES.

The College Library, at Cambridge, is open to students.

The Boston Public Library is open to students who are inhabitants of Boston. Students who are not inhabitants of Boston, who have filed bonds at the Treasurer's office, or deposited with the treasurer the sum of fifty dollars, may also use this Library.

FEES.

There are no fees for matriculation, for the diploma, or for the demonstrators. For the first year a student is a member of the School, the fee is $200, in two payments of $120 and $80, at the beginning of each term; for the second year, $150, in two payments of $100 and $50, payable at the beginning of each term; for any subsequent year, $50, payable at the beginning of the year.

Students who do not file a bond are required to deposit $15 to cover breakages, &c. in the Chemical Laboratory; also a deposit of $6 for parts for dissection. The unused balance is returned at the end of the year.

Graduates of recognized Dental Schools will be admitted to the courses of Operative and Mechanical Dentistry for the whole or any portion of the academic year on payment of fifty dollars for each course.

Of students *who do not pay in advance*, a bond for $300 executed by two sufficient bondsmen, one of whom must be a citizen of the United States, is required. A copy of such bond will be sent, on application to the Dean of the Faculty. To students depositing these bonds, term-bills will be presented a week before the end of the first term, to be paid within two weeks; and also one week or more before Commencement, to be paid on or before the beginning of the next academic year. Such students will be held responsible for the payment of fees until they shall have notified the Dean of their intention to withdraw from the School, and have received their bond from the Treasurer. *No degree can be conferred till all dues to the School are discharged.*

The student's expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. The Janitor of the Medical School keeps a list of boarding-houses in which the charges are from five dollars per week upwards, according to accommodation furnished.

Students, on joining the School, must enter their names with the Dean of the Faculty.

For further information address Thos. H. Chandler, Dean, Hotel Bristol, corner of Boylston and Clarendon Sts., Boston, Mass.

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THE BUSSEY INSTITUTION,

JAMAICA PLAIN.

A SCHOOL OF AGRICULTURE AND HORTICULTURE.

INSTRUCTORS.

THOMAS MOTLEY, A.M., *Instructor in Farming.*

——— ———, *Professor of Applied Zoölogy.*

FRANCIS H. STORER, S.B., A.M., *Dean, and Professor of Agricultural Chemistry.*

BENJAMIN M. WATSON, A.B., *Instructor in Horticulture.*

DANIEL T. HINCKLEY, B.A.S., *Superintendent of the Farm.*

NATHANIEL THAYER KIDDER, B.A.S., *Instructor in Botany.*

KENELM WINSLOW, B.A.S., M.D.V., *Instructor in Zoölogy.*

CHARLES S. SARGENT, A.B., *Director of the Arnold Arboretum.*

STUDENTS.

NAME.	RESIDENCE.	PRESENT ADDRESS.
Bullard, Theodore Lyman,	*Manchester*,	149 Beacon St., Boston.
Chase, Stephen, A.B. 1886,	*Marlboro', N.H.*	234 Beacon St., Boston.
Child, Francis Sedgwick,	*Cambridge*,	67 Kirkland St., Cambridge.
Codman, Henry Sargent,	*Brookline*,	Brookline.
Coolidge, David Hill.	*Boston*,	114 Commonwealth Ave., Boston.
Everett, Herbert Edward,	*Boston*,	77 Pinckney St., Boston.
Gassett, Walter,	*Sundance, W.T.*	17 Congress St., Boston.

The School of Agriculture and Horticulture, established in execution of the Trusts created by the will of Benjamin Bussey, gives systematic instruction in Agriculture, Useful and Ornamental Gardening, and Stock Raising. It is specially adapted for the instruction of young men who have been brought up as practical farmers or gardeners, and who intend to follow one or other of these callings.

It is, in general, meant for young men who intend to become farmers, gardeners, florists, or landscape gardeners; as well as for those who will naturally be called upon to manage large estates, or who wish to qualify themselves to be overseers or superintendents of farms, country seats, or public institutions.

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It also meets the needs of students who wish to pursue some special branch of agriculture, horticulture, botany, or applied zoölogy.

The Bussey Institution is situated near the village of Jamaica Plain, about five miles southwest of the centre of Boston, and close to the Forest Hills station on the Boston & Providence Railroad. It is far enough removed from the other departments of the University to preserve the spirit and atmosphere proper to a School of Agriculture, and to insure to its students mental independence and opportunity to devote themselves wholly to their chosen studies; while, on the other hand, it is near enough to Cambridge and Boston to permit the use of the College Library and of the rich scientific collections of the University, and to enable the student, if he please, to attend a great variety of collateral courses of instruction. Students may live either in the immediate vicinity of the School, or in Boston proper, or in some one of the neighboring villages upon the line of the railroad.

The academic year begins on the Thursday following the last Wednesday in September, and ends on the last Wednesday in June, with a recess from December 23d to January 2d, inclusive, and a spring recess from the Wednesday before Fast Day to the following Tuesday, inclusive.

INSTRUCTION.

Theory of Farming . . . . . Mr. MOTLEY.

Selection of farms for special purposes. Division into fields for different crops. How manures and composts are prepared and kept. Seeding for hay, grain, and root crops. Selection of cows and other stock for farm purposes, with general directions for breeding the same. Farm accounts.

Agricultural Chemistry . . . . . Professor STORER.

Soil, air, and water in their relations to the plant. The food of plants; — manures, general and special. Chemical principles of tillage, irrigation, systems of rotation, and of special crops and farms. The food of animals; simple and mixed rations. Discussion of the values of different kinds of fodders, of the means of determining fodder values, and of the methods of using fodders to the best advantage.

Applied Zoölogy . . . . . Dr. WINSLOW.

Rudiments of the anatomy and physiology of domestic animals, with special reference to the selection, valuation and utilization of farm stock. The general management of horses, cattle, sheep and swine in health, and the treatment of their more common ailments and diseases. Opportunities will be offered for the critical examination of living animals in health and disease.

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Horticulture . . . . . Mr. WATSON.

Preparation of soils for horticultural and floricultural purposes. Management of plants, including methods of propagation. Horticultural implements. Methods of obtaining new varieties of vegetables, fruits, and flowers. Arrangement and care of flower- and kitchen-gardens, nurseries, and orchards. The construction and care of hotbeds and greenhouses. Principles of landscape gardening. Values of trees and shrubs for ornamental purposes. Practical greenhouse work by the student supplements the lectures.

Students interested in tree culture have the opportunity of seeing the raising of trees in great variety for the Arnold Arboretum, on grounds adjacent to the School.

Botany . . . . . Mr. KIDDER.

Elements of structural and systematic botany. General classification of plants, with study of the more important natural orders of Phaenogams. Practice in analysis; and study of the common plants of our woods, fields, gardens and greenhouses, with special reference to the needs of agricultural and horticultural students. Rudiments of vegetable physiology.

Entomology . . . . . Mr. ———.

Anatomy, physiology, and development of insects; their classification, habits, and economy, with means for checking the ravages of injurious species. Collection and preservation of specimens.

Quantitative Chemical Analysis (for advanced students), Prof. STORER.

Laboratory practice. Methods of analyzing rocks, manures, plants, milk, etc., and of investigating problems in agricultural chemistry. [This course is intended for students who have already received instruction in general chemistry and have had laboratory practice in qualitative analysis. Students who lack this preliminary training may prepare themselves for the quantitative course by attending the laboratory instruction in general chemistry and qualitative analysis, given at the Medical School on Boylston St., Boston, which is open to students of the Bussey Institution on payment of a small fee.]

Instruction is given by lectures and recitations, and by practical exercises in the laboratories, greenhouses, and fields; every student being taught to make experiments, study specimens, and observe for himself. The aim of the teachers is to give the student a just idea of the principles upon which the arts of agriculture and horticulture depend; to teach him how to make intelligent use of the scientific literature which relates to these arts; and to enable him to put a proper estimate upon those kinds of evidence which

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are obtained by experiments and by the observation of natural objects. Examinations are held statedly to test the student's proficiency.

The courses above described are given in one year, so that they may be profitably pursued by young men of ability and judgment who cannot afford to spare much time for advanced study.

OTHER OPPORTUNITIES FOR INSTRUCTION.

The stated instruction in Agricultural, Horticultural, and Zoölogical Science, as described above, is given at the Bussey Institution, at Jamaica Plain, by teachers specially attached to this institution. But, in addition to these regular courses, there are many other opportunities for instruction of which young men who are strong enough to bear extra study may freely avail themselves. Students of the Bussey Institution, in full regular standing, are admitted free to any or all the courses of instruction (about two hundred in number) in the other departments of the University, with the exception of exercises carried on in the special laboratories. In addition to the opportunities for instruction given by the University, the free evening High, and Drawing Schools of the City of Boston offer a number of courses of interest to students whose previous opportunities have been limited. The instruction given by these schools is free to persons residing in Jamaica Plain or anywhere within the limits of the city. Free evening lectures upon scientific and other subjects of interest to agricultural students are often given both in Boston and Cambridge. The Massachusetts Horticultural Society holds frequent exhibitions of fruit and flowers; and there are several associations in Boston for the exhibition and discussion of mechanical novelties. Large agricultural warehouses, cattle markets, and abattoirs are all readily accessible, and afford ample opportunity for the observation and comparison of tools and stock. A great variety of greenhouses, and of gardens for the cultivation of fruit, flowers, and vegetables, as well as farms of several different kinds, and estates which illustrate practical landscape gardening, are situated within easy reach of the School and may be visited for purposes of study. The Farm belonging to the Bussey Institution, and upon which the school buildings are situated, comprises 200 acres of excellent land, greatly diversified as to elevation and character. It is devoted primarily to the production of hay, which is consumed upon the farm by horses and cattle taken to board. Students have constant opportunity to observe these animals, as well as the agricultural operations and the courses of crops by which the fertility of the soil is kept up.

Students who wish to obtain work upon farms during the summer vacation can do so without difficulty.

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LIBRARIES.

Students may freely use the special Agricultural Library at the Bussey Institution; the College Library at Cambridge, from which books are sent on occasion to the Bussey Institution by express; and the Boston Public Library, which has a branch and office for the delivery of books in Jamaica Plain not far from the Bussey Institution.

REQUIREMENTS FOR ADMISSION AND GRADUATION.

Candidates for admission must be at least seventeen years of age, and must present testimonials of good moral character. No formal examination will be required of them, but each student must satisfy the instructors of his ability and of his intention to profit by the teachings of the School. Young men who wish to prepare themselves to pursue the foregoing courses of instruction to the fullest advantage can pass one year at the Lawrence Scientific School in Cambridge, which provides elementary courses of instruction in Chemistry, Physics, Biology, Physical Geography, Geology, Meteorology, Drawing, French, and German.*

Candidates for the degree of Bachelor of Agricultural Science must take this preliminary course of one year at the Lawrence Scientific School, or prove by examinations that they possess an equivalent amount of knowledge. They must, furthermore, on completion of the stated courses above described, devote a year to advanced study at the Bussey Institution, and to practical research in Agriculture or Horticulture, or in Botany, Anatomy, or Chemistry as applied to those arts, and must satisfy the instructors, by passing examinations, that they have acquired a thorough knowledge of the subjects taught at the School.

Candidates for a degree are expected to pursue with equal diligence all the subjects above described, but the advanced studies of the final year may be varied, at the discretion of the instructors, in accordance with the student's aims and purposes. Instead of Quantitative Analysis, any other advanced elective course may be substituted. Among the numerous courses of this character open to students of the Bussey Institution, though given in other departments of the University, those upon Advanced Botany (both phaenogamic and cryptogamic), Geology, Zoölogy, Physics, Physiology, Pathology, Political Economy, and Surveying are particularly suitable for agricultural students.

Students who are not candidates for a degree may, upon producing cer-

* In order to pursue these studies at the Scientific School with advantage the student should come prepared in Arithmetic, Algebra as far as Quadratic Equations, elementary Plane Geometry, and English Composition. The ability to translate French, German, and Latin will be of advantage to him.

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tificates of good moral character, join the School at any time, without examination, to pursue any special course or courses of instruction which they are qualified to pursue with advantage.

BOND OR DEPOSIT.

Every student, when admitted, must give a bond in the sum of $200 to pay all charges accruing under the laws and customs of the University. The bond must be executed by two bondsmen, who must be satisfactory to the Treasurer (office No. 50 State St., Boston), and one of whom must be a citizen of the United States. Instead of filing a bond a student may pay his tuition fee for the year in advance and deposit such a sum of money, not exceeding $50, as may be deemed sufficient to secure the payment of other school dues. Special students will pay the tuition fees in advance at the Treasurer's office, or to Professor F. H. Storer, Dean, at the Bussey Institution.

FEES AND EXPENSES.

The regular fee for the academic year is $150; for half or any less fraction of a year, $75; for any fraction of a year greater than one half, the fee for the whole year will be charged. The regular fee will be charged also to those special students who devote themselves to continuous laboratory work in a single department of the School. For any one of the special courses above enumerated under the heading "Instruction" the fee is $40 for the year, excepting for Entomology, which is given during the last half of the year at $20.

The tuition fees will be freely remitted to poor and meritorious students.

The other expenses of a student for an academic year, not including clothing, may be estimated as follows: —

Room	$40.00	to	$100.00
Board for 38 weeks	133.00	to	200.00
Text Books and Instruments	15.00	to	20.00
Fuel and Lights	15.00	to	25.00
Washing	15.00	to	25.00
	$218.00	to	$370.00

For further information, address Prof. F. H. Storer, Jamaica Plain, Mass.

Experiments and investigations made at the Bussey Institution are published from time to time in a Bulletin, of which nine Parts or Numbers, containing fifty-five Essays or Memoirs, have already been issued. This "Bulletin of the Bussey Institution" is published by Mr. John Allyn, 30 Franklin Street, Boston, and will be mailed by him to any address on receipt of 75 cents per part.

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THE SCHOOL OF VETERINARY MEDICINE.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*

CHARLES P. LYMAN, F.R.C.V.S., *Dean, and Professor of Veterinary Medicine.*

DAVID W. CHEEVER, M.D., *Professor of Surgery.*

HENRY P. BOWDITCH, M.D., *Professor of Physiology.*

J. COLLINS WARREN, M.D., *Associate Professor of Surgery.*

REGINALD H. FITZ, M.D., *Professor of Pathological Anatomy.*

EDWARD S. WOOD, M.D., *Professor of Chemistry.*

WILLIAM B. HILLS, M.D., *Assistant Professor of Chemistry.*

WILLIAM F. WHITNEY, M.D., *Instructor in Parasitic Diseases.*

CHARLES S. MINOT, S.D., *Assistant Professor of Histology and Embryology.*

FRANCIS H. WILLIAMS, M.D., *Assistant Professor of Therapeutics.*

OTHER INSTRUCTORS.

HENRY P. QUINCY, M.D., *Instructor in Histology.*

JOSEPH W. WARREN, M.D., *Instructor in Physiology.*

WILLIAM C. EMERSON, M.D., *Assistant in Chemistry.*

HAROLD C. ERNST, M.D., *Demonstrator of Bacteriology.*

FREDERICK E. CHENEY, M.D., *Instructor in Ophthalmology.*

KENELM WINSLOW, B.A.S., M.D.V., *Instructor in Materia Medica and Botany.*

DANIEL D. LEE, M.D.V., *Instructor in Anatomy and Operative Surgery.*

EDWARD C. BECKETT, M.D.V., *Assistant in Clinical Instruction, and Superintendent of the Veterinary Hospital.*

RESIDENT HOSPITAL ASSISTANTS.

LANGDON FROTHINGHAM. — ELISHA M. BRASTOW.

STUDENTS.

THIRD CLASS.

NAME.	RESIDENCE.	ADDRESS *
Frothingham, Langdon,	*Jamaica Plain,*	210 Beacon St.
Lewis, Henry Stockton,	*Cambridge,*	13 Boylston Place.
Soule, Albion Milton Moore,	*Hyde Park,*	Hyde Park.

* Addresses are in Boston unless stated to be elsewhere.

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SECOND CLASS.

Burr, Alexander,	*E. Boston*,	157 Chelsea St., E. Bos-
Gage, Frederick Hiram,	*West Medford*,	West Medford. [ton.
Harris, Benjamin Abraham,	*Belmont*,	Belmont.
Hicks, Hazen Hooker,	*Boston*,	220 Devonshire St.
Hicks, Joseph,	*Georgetown, Fla.*,	379 Columbus Ave.
Partridge, Clarance Arthur,	*Natick*,	Saxonville.

FIRST CLASS.

Bond, George Gorham,	*Jamaica Plain*,	Jamaica Plain.
Brastow, Elisha Manton,	*Wrentham*,	50 Village St.
Cabot, Follen, Jr.	*Brookline*,	Brookline. [bury.
Dowd, Edward Pierce,	*Roxbury*,	22 E. Windsor St., Rox-
Farnum, William David,	*Waltham*,	Waltham.
Hadcock, Charles Edward,	*Cambridge*,	Cambridge. [ton.
Harrington, Edward Thomas,	*So. Boston*,	873 Broadway, So. Bos-
Harrington, John Charles,	*Everett*,	Everett.
Kiggen, Joseph Michael,	*Hyde Park*,	Hyde Park.
Kimball, Frederick James,	*Malden*,	Malden.
Lord, William Saford,	*Salem*,	Salem.
Mullowney, Patrick Henry,	*Longwood*,	Longwood. [Plain.
Perry, Frederick McKenney,	*Jamaica Plain*,	Gordon St., Jamaica
Soule, Wilbert,	*Portland, Me.*	24 Appleton St. [chester.
Souther, Harrison Abbott,	*Dorchester*,	691 Adams St., Dor-

SPECIAL STUDENTS.

Joel, Charles Leverett,	*Fitchburg*,	24 Appleton St.
Lillyman, Frank Guard,	*Dorchester*,	Quincy St., Dorchester.

DIVISION OF STUDIES.

For the First Year. — Anatomy, Physiology, General Chemistry, and Botany.

For the Second Year. — Practical Anatomy, Medical Chemistry, Materia Medica, Pathological Anatomy, Surgical Pathology, Theory and Practice of Veterinary Medicine, Clinical Medicine, and Clinical Surgery.

For the Third Year. — Therapeutics, Obstetrics, Theory and Practice of Veterinary Medicine, Operative Veterinary Surgery, Ophthalmology, Parasites and Parasitic Diseases, Clinical Medicine, and Clinical Surgery.

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METHODS OF INSTRUCTION.

The following methods of instruction are adopted in the several departments: —

Anatomy. — The instruction will embrace the *general laws* of anatomy, *typical* anatomy, taking the horse as a type, *comparative* anatomy of the other domesticated animals, and *practical* anatomy, abundant opportunity being offered for dissections under the oversight of the Instructor assisted by the Demonstrators. Histology and the use of the microscope will be taught by Laboratory exercises under the direction of the Instructors.

Physiology. — Lectures, recitations, conferences, and practical demonstrations in the Laboratory. To students of the second and third years opportunities will be given for original investigations in the Physiological Laboratory.

Chemistry will be taught mainly by practical work in the Laboratory, the student having his own desk and apparatus. Descriptive chemistry and qualitative analysis are taught during the first year. Besides the Laboratory work, there is a lecture and a recitation every week. In the second year medical chemistry is taught by lectures, recitations, and exercises in the Laboratory.

Pathological Anatomy will be taught by lectures, recitations, and practical instruction in pathological histology. The collection of the Warren Anatomical Museum will be used to illustrate the lectures, and morbid specimens will be shown in a fresh state. Students will also receive practical instruction in the method of making autopsies. Pathological histology, including the diagnosis of tumors, will be taught in Laboratory exercises; students will be required to prepare the various objects.

Botany will be taught by lectures and practical exercises in the Laboratory and in the field. Typical examples of the various classes of plants are selected with regard to their Anatomy, Physiology, and Development. Particular attention will be given to the more common Forage Plants, and to the indigenous Poisonous Plants.

At a proper season of the year frequent excursions will be made into the surrounding country for practical work.

Materia Medica, including *Pharmacy*, will be taught by lectures and practical demonstrations.

Therapeutics, or the physiological action of drugs and their application to disease, will be taught in the third year by lectures.

The Theory and Practice of Veterinary Medicine. — Lectures, Recitations, Hospital Visits, and Out-door Practice. This will include the prac-

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tice of Equine, Bovine, and Canine Medicine, as well as the treatment of some of the other animals with which veterinarians occasionally have to deal.

Clinical Medicine. — Daily instruction will be given in this department by visits to sick animals and other exercises. The large resources of the School, both in its Hospital Wards and its extensive out-door practice, afford to students unusual facilities for becoming *practically* acquainted with the diseases of Horses, Cattle, Dogs, etc. They will be furnished with cases for personal examination, and will be called upon to report them before the class, where the reports will be criticised. A regular course of supplementary instruction will be given in Auscultation and Percussion, which will afford students an abundant opportunity for acquiring a thoroughly practical knowledge of these methods of exploration.

Surgery. — Lectures and recitations. There will also be courses on Surgical Histology, Bandaging, the Application of Surgical Apparatus, and Operative Surgery. Regular days are set apart for operations at the Veterinary Hospital. Students are also expected to attend the operations at the City and Massachusetts General Hospitals, and in the third year will have opportunity of performing various operations upon the living subject, under the direction of the Instructor, and before the class.

Obstetrics. — Recitations. Students will be instructed in the methods of performing necessary operations, and will have opportunities during their third year to take charge of cases, when such offer themselves.

Ophthalmology. — A course of lectures will be delivered upon the diseases of the eye in the domestic animals, and instruction will be given in the use of the ophthalmoscope.

Parasites and Parasitic Diseases. — A special course of lectures and clinical instruction will be given in this subject.

Embryology. — A special course of lectures will be given during the the first year.

TEXT-BOOKS.

The following works are recommended as text-books, and for consultation: —

Anatomy. Strangeway's Veterinary Anatomy, Vaughan. Chaveau's Comparative Anatomy, Fleming. Anatomy of the Horse, a Dissection Guide, McFadyean.

Physiology. Dalton's Human Physiology. Foster's Text-book of Physiology. Huxley's Elementary Lessons in Physiology.

General Chemistry. Bartley's Medical Chemistry. Fresenius', or Douglass and Prescott's Qualitative Analysis.

Medical Chemistry. Neubauer and Vogel, Analysis of the Urine. Tyson's Guide to the Practical Examination of the Urine. Reese's Manual of Toxicology.

Botany. Gray's Text-book.

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Materia Medica. Veterinary Medicines, Their Action and Uses, Finlay Dun. Morton's Manual of Pharmacy for the Veterinary Student. United States Pharmacopoeia.

Pathological Anatomy. Wagner's Manual of General Pathology. Cornil and Ranvier's Pathological Histology. Wilks's Pathological Anatomy (Moxton's edition).

Therapeutics. H. C. Wood's Therapeutics. Ringer's Therapeutics.

Obstetrics. Fleming's Veterinary Obstetrics.

Theory and Practice. The Principles and Practice of Veterinary Medicine, Williams. The Principles and Practice of Veterinary Surgery, Williams. Equine Medicine, Robertson. Percival's Hippopathology. A Manual of Bovine Pathology, Steele. The Management and Diseases of the Dog, Hill.

Surgery. Billroth's Surgical Pathology. Text-book of Operative Veterinary Surgery, Fleming. Précis de Chirurgie Vétérinaire, Peuch et Toussaint. Handbuch der Thierärztlichen Operationslehre, Herring.

COURSES OF INSTRUCTION.

Anatomy.

Descriptive Anatomy. *Three times a week.* Dr. LEE.

Practical Anatomy, with Exercises in Dissection. *Daily. Nov. till May.* Dr. LEE and Demonstrators.

Form and Action of the Horse. Professor LYMAN.

Laboratory Exercises in Histology. *Twice a week.* Dr. QUINCY.

Physiology.

Systematic and Experimental Physiology. *Four times a week.* Professor BOWDITCH.

Laboratory Exercises in Experimental Physiology. Dr. J. W. WARREN.

Chemistry.

Descriptive and Analytical Chemistry. *Three times a week.* Assistant Professor HILLS.

Medical and Toxicological Chemistry. *Twice a week.* Professor WOOD.

Practical Exercises in the Laboratory for Analytical Chemistry. *Eight hours a week.* Assistant Professor HILLS.

Practical Exercises in the Laboratory for Medical Chemistry. *Daily.* Professor WOOD and Dr. EMERSON.

Botany.

Botany. *Twice a week in the second half-year*, with Laboratory and Field work. Dr. WINSLOW.

Materia Medica and Therapeutics.

Materia Medica, with Practical Demonstrations. *Twice a week.* — Practical Pharmacy. *Daily.* Dr. WINSLOW.

Therapeutics. *Three times a week.* Asst. Professor F. H. WILLIAMS.

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Pathology and Pathological Anatomy.

General Pathology and Pathological Anatomy. *Four times a week.* Professor FITZ.

Special Pathology with Demonstrations and Laboratory Exercises in Pathological Histology. *Twice a week.* Dr. WHITNEY.

Practical Instruction in performing Autopsies. Professor LYMAN and Dr. BECKETT.

Surgery.

Surgery and Clinical Surgery. *Daily.* Professor LYMAN and Dr. BECKETT.

Operative Surgery, Lectures and Practical Exercises. Dr. LEE.

Lectures in Surgery. *Once a week.* Professor CHEEVER.

The Application of Bandages and Apparatus. Dr. LEE.

Ophthalmology.

Diseases and Injuries of the Eye. Lectures and Practical Exercises. *Once a week.* Dr. C. H. WILLIAMS.

Parasitic Diseases.

Parasites and Parasitic Diseases. *Once a week.* Dr. WHITNEY.

Theory and Practice.

Theory and Practice of Veterinary Medicine. *Three times a week.* Professor LYMAN.

Obstetrics.

Theory and Practice of Veterinary Obstetrics. *Once a week in second half-year.* Professor LYMAN.

VETERINARY ESTABLISHMENT.

A fully equipped veterinary establishment has been provided, which with its other facilities makes this School one of large resources for students who wish to become thoroughly practical, as well as scientific, veterinarians.

Hospital. — The hospital building, situated at the corner of Village and Lucas Streets in the city proper, offers every advantage for the observation and treatment of sick animals. It is a substantial structure of brick, three stories high, and has been designed and built especially for its uses. Upon the first floor are the office, a large operating-room lighted from above, five commodious box stalls (one of which is arranged for the reception of violent cases) and six ordinary stalls. On the second floor are twelve boxes and stalls of various dimensions, a room for dogs containing about twenty kennels, a pharmacy, and a grooms' room. The third story contains, besides the necessary lofts and work rooms,

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apartments for the assistant surgeon and house surgeons. In the basement there is a shoeing forge and a boiler room. Hot and cold water, steam heat, and gas are supplied throughout the building, and all pains have been taken to make the drainage and ventilation satisfactory.

Adjoining the Hospital and connected with it, is another brick building, erected entirely for the purposes of the School. This contains, on the lower floor, which is devoted to Hospital uses, boxes and stalls for ten horses. Upon the second floor is the lecture-room, in which a separate desk is provided for each student, and the seats rise each higher than the one before it. From this room a door communicates with the Hospital through which horses, or other animals, may be introduced for purposes of illustration. Upon the third floor in front is the dissecting-room, two stories in height, lighted from above, with an asphalt floor, and heavily painted brick walls, making a room which is at once light, well ventilated, and dry. In the rear is a students' reading-room comfortably furnished, the walls being lined with book-cases which are intended to accommodate the library, to which the members of all the classes have access. Above this on the fourth floor is a room properly fitted with glass cases for the Museum, and beside it a comfortable room for the house surgeons. The whole building is heated by steam.

Bussey Farm. — The School also enjoys the use of commodious buildings and pastures at the Bussey Farm, to which animals convalescing from various diseases and lamenesses are sent from the Village St. building for a period of rest. A large number of cows, as well as of horses, can be accommodated, and will be received here directly for treatment if desired.

Forge. — The forge is used for the shoeing of both sound and lame horses. The theory of orthopoedic shoeing will be taught as well as that of shoeing sound animals. It will be possible also for those students who desire it, to procure a course in practical horse-shoeing.

Museum. — Besides the rich collection at the Warren Museum, to which the students have access, the School has the nucleus of a valuable collection of its own, which has already been added to by gifts of anatomical and pathological objects from friends, both within and without the profession.

Methods of Instruction. — In all departments cases will be placed under the care of the senior students, who will be expected to act in regular order as visitors and dressers, to keep a full record of all work done, and report the same to the class for criticism. In the same way it is expected that students will do the work of mixing and dispensing medicines in the pharmacy, that they may thus become thoroughly competent veterinary pharmacists.

A thorough drill will be given at the hospitals in the various methods of restraining animals during operation, in the application of bandages, and

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the administration of medicines, as well as in the common methods of approaching and handling animals.

Practice in the examination of horses for soundness will be given frequently during the last two years of the course, and students will be required to write certificates of such examinations and to present them before the class for criticism.

Autopsies will be made on all patients that die at the hospital, and on any cadavers that may be sent for examination.

EXAMINATIONS.

The regular examinations will be held in the following order: —

At the End of the First Year. — Anatomy, Physiology, General Chemistry, and Botany.

End of Second Year. — Medical Chemistry, Materia Medica and Pharmacy, and Pathological Anatomy.

End of Third Year. — Therapeutics, Obstetrics, Theory and Practice of Medicine, Surgery, Ophthalmology, and Parasitic Diseases.

The regular examinations will be held at the end of each year in June, and a week before the opening of the School in September on the studies of the preceding year.

No student will be allowed to anticipate the examinations in the regular course of studies of his year, except by special permission of the Faculty. No student will be allowed to present himself for examination, in any branch of study, without notifying the Secretary, in writing, that he intends to do so, one month before the time when the examination is to be held.

The examinations will be conducted mainly in writing. No student will receive his degree until he has passed a satisfactory examination in all the subjects of the three years' course, and has presented a certificate from the instructor or demonstrator in Anatomy that he has satisfactorily dissected one or more entire bodies. Those who fail in any subject may present themselves in that subject again, at the next regular examination.

DIVISION OF STUDENTS.

Students will be divided into three classes, according to their time of study and proficiency. Students who began their professional studies elsewhere may be admitted to advanced standing, but all persons who apply for admission to the advanced classes must pass an examination in the branches already pursued by the class to which they seek admission.

No student may advance with his class, until he has passed the required examinations in the studies of the previous year, or a majority of them.

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In order that the time of study shall count as a full year, students must present themselves within the first week of the school year and register their names with the Secretary.

Students who do not intend to offer themselves for a degree will, however, be received for any portion of the course upon special terms.

INSTRUCTION IN OTHER DEPARTMENTS OF THE UNIVERSITY.

Members of any one department of Harvard University have a right to attend lectures and recitations in any other department, without paying additional fees; but this provision does not apply to Special Students unless they pay the full fee of $150. Students in the School of Veterinary Medicine who wish to avail themselves of this opportunity of pursuing scientific or other studies may do so to such extent and in such manner as the Faculty of the School shall in each case prescribe.

LIBRARIES.

The Library of the School of Veterinary Medicine is open to the student, on the deposit of five dollars, to be refunded to him when he may desire, after returning all books.

The College Library at Cambridge is open to the students of the School of Veterinary Medicine.

The Boston Public Library, which contains a large collection of Medical and Veterinary books, is open to students who are inhabitants of Boston. Students who are not inhabitants of Boston, who have filed bonds at the Treasurer's office, or deposited with the Treasurer the sum of fifty dollars, may also use this Library.

ADMISSION.

All candidates for admission, excepting those who can produce certificates proving that they have passed the admission examination at some recognized college or scientific school, must pass an examination in the following subjects: —

1. ENGLISH. Each applicant will be required to read aloud a selected passage from ordinary English prose, to write legibly and correctly, an English composition of not less than two hundred words, and also to write English prose from dictation.

2. ARITHMETIC. The simple and compound rules of Arithmetic including decimal fractions.

Candidates are also invited to present themselves for examination in one or more of the following subjects, which are *at present*, however, *optional:* Latin (the translation of easy Latin prose), French, German,

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the Elements of Algebra and of Plane Geometry, and Zoölogy.* Those who intend to present themselves in these subjects must give notice of the fact one week before the examination.

In 1888, the examinations for admission will be held at the class-room on Village St., on Tuesday, June 26, and on Tuesday, September 25, beginning at 10 A.M.; examinations for admission will ALSO be held at the following places, beginning at 8 A.M. on Thursday, June 28: —

In *Quincy*, in rooms of the Adams Academy; in *Andover*, in rooms of the Phillips Academy; in *Exeter, N. H.*, in rooms of the Phillips Exeter Academy; in *New York*, in the lecture-room of the Young Men's Christian Association, Twenty-third Street, corner of Fourth Avenue; in *Philadelphia*, in the library hall of the Academy of Natural Sciences, S. W. corner of Nineteenth and Race Streets; in *Cincinnati*, in the rooms of the Law School, College Building, Walnut Street; in *Chicago*, in the Hoyne School Building, corner of Cass and Illinois Streets; in *St. Louis*, in the Central High School Building, corner of Olive and Fifteenth Streets; in *San Francisco*, in the rooms of the Boys' High School, on Sutter Street, between Gough and Octavia Streets; and in some convenient city in Europe, to be announced later.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF VETERINARY MEDICINE.

Every candidate must be twenty-one years of age, and of good moral character; must give evidence of having studied Veterinary Medicine three full years; have spent at least one continuous year at this School; have presented a satisfactory thesis; and have passed the required examinations.

FEES AND BONDS.

For matriculation, five dollars; for a year, one hundred dollars (if in two payments, at the first sixty dollars; at the second forty dollars); for a half-year alone, sixty dollars; for graduation, thirty dollars. Of students who do not pay in advance, a bond for $300, executed by two sufficient bondsmen, one of whom must be a citizen of the United States, is required. A copy of such bond will be sent, on application to the Secretary of the Faculty. To students depositing bonds, term bills will be presented one week before the end of the first term, to be paid within two weeks; and also one week or more before Commencement, to be paid on or before the beginning of the next academic year. Such

* Young men who intend to study Veterinary Medicine are advised to pay special attention to the study of Natural History, Chemistry, Physics, and the French and German languages, while in school or college.

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students will be held responsible for the payment of fees until they have notified the Secretary of their intention to withdraw from the School and have subsequently received their bond from the Treasurer. No degree can be conferred till all dues to the school are discharged.

For further information or catalogues, address C. P. LYMAN, F.R.C.V.S., *Dean*, 50 Village St., Boston, Mass.

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THE GRADUATE DEPARTMENT.

RESIDENT STUDENTS.

NAME.	HOME RESIDENCE.	PRESENT ADDRESS.
Abbott, Benjamin Rush,	*Bloomington, Ill.*	17 Story St.
A.B. 1886. Fine Arts (one course).		
Abbott, Samuel,	*Wakefield,*	Wakefield.
A.B. (*Williams Coll.*) 1887. English and Philosophy.		
Anderson, James Nesbitt,	*Williamston, S. C.*	26 Mellen St.
Lit.B. (*Univ. of Va.*) 1886, A.M. (*Ibid.*) 1887. Morgan Fellow. Classical Philology.		
Ayer, Clarence Walter,	*Haverhill,*	6 Story St.
A.B. 1885. English, Italian, and Fine Arts.		
Babbitt, Eugene Howard,	*Boston,*	124 Charles St., Boston.
A.B. 1886. Instructor in Modern Languages, Mass. Inst. of Technology. History (one course).		
Bailey, Frederick Harold,	*Cambridge,*	25 Mt. Auburn St.
A.B. 1887. athematics, French, and Fine Arts.		[erville.
Bailey, Solon Irving,	*Somerville,*	38 Chester St., Som-
A.B. (*Boston Univ.*) 1881, A.M. (*Ibid.*) 1884. Mathematics and Astronomy.		
Baldwin, Elbert Francis,	*Cleveland, O.*	Lawrence Hall 37.
A.B. (*Williams Coll.*) 1884, A.M. (*Ibid.*) 1887. Student, Episcopal Theol. School Fine Arts (one course).		
Billings, Charles Towne,	*Fitchburg,*	C. 67.
A.B. 1884. Teacher, Adams Academy, Quincy. History.		
Bridge, Josiah,	*Cambridge,*	M. 40.
A.B. 1884, A.M. 1887. Classical Philology.		
Buckingham, Edgar,	*Boston,*	G. 43.
A.B. 1887. Proctor. Mathematics and Physics.		
Crocker, William Tufts,	*Fitchburg,*	Lawrence Hall 32.
A.B. 1884, A.M. 1885. Student, Episcopal Theol. School. Fine Arts (one course).		
Currier, Charles Francis Adams,	*E. Kingston, N. H.*	S. 6.
A.B. 1887. History.		
Dewart, Franklin Henry,	*Cambridge,*	8½ South St.
A.B. (*Ohio Wesleyan Univ.*) 1879. Mathematics, etc.		
Drown, Edward Staples,	*St. Augustine, Fla.*	Lawrence Hall 23.
A.B. 1884. Student, Episcopal Theol. School. Philosophy (one course).		
Eigenmann, Carl H,	*San Diego, Cal.*	13 Kirkland Pl.
S.B. (*Indiana Univ.*) 1886, A.M. (*Ibid.*) 1887. Zoölogy.		

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Foerste, August Frederic, *Dayton, O.* Story St.
A.B. (*Denison Univ.*) 1887. Geology.

Ganong, William Francis, *St. Stephen, N. B.* C. 56.
A.B. (*Univ. of New Brunsw.*) 1884, A.M. (*Ibid.*) 1886, A.B. (*Harv. Univ.*) 1887. Assistant in Botany. Natural History.

Gardner, William Amory, *Groton,* Groton.
A.B. 1884. Classical Philology (one course, first half-year).

Geddes, James, Jr. *Brookline,* 688 Main St.
A.B. 1880. Modern Languages.

Gray, John Henry, *Charleston, Ill.* C. 17.
A.B. 1887. Proctor. History.

Haley, Herman Wadsworth, *Lowell,* 46 North Av.
A.B. (*Amherst Coll.*) 1887. Classical Philology.

Hall, James Milton, *Haverhill,* H. 23.
A.B. 1883, LL.B. 1887. Political Economy (one half-course).

Harris, Thaddeus William, *Cohasset,* D. 40.
A.B. 1884, A.M. 1885. Assistant in Geology. Geology.

Haynes, Henry Harrison, *Cambridge,* 36 Wallace St.
A.B. 1873, A.M. 1887, D.B. (*Epis. Theol. School*) 1877. Semitic Languages.

Henderson, Ernest Flagg, *New York, N. Y.* 750 Cambridge St.
A.B. (*Trinity Coll.*) 1882, (*Harvard Univ.*) 1883, A.M. 1884. History.

Hill, Joseph Adna, *Temple, N. H.* 10 Oxford St.
A.B. 1885. History and Political Economy.

Hinds, Albert Walker, *West Boylston,* 646 Cambridge St.
A.B. (*Brown Univ.*) 1887. Classical Philology.

Hochdörfer, Carl Friedrich Richard, *Cambridge,* 26 Wallace St.
(*Univ. of Leipzig*) Staatsexamen, 1881. Instructor in German. English.

Howe, Mark Antony de Wolfe, Jr. *Reading, Pa.* Wadsworth House 9.
A.B. (*Lehigh Univ.*) 1886, (*Harvard Univ.*) 1887. English.

Hubbard, George Henry, *North Cambridge,* 5 Richdale Ave.
A.B. (*Dartmouth Coll.*) 1880, A.M. (*Ibid.*) 1886, (*Hartford Theol. Sem.*) 1884. Political Economy.

Hurlbut, Byron Satterlee, *Lynn,* Felton Building 28.
A.B. 1887. English.

Jackson, Robert Tracy, *Boston,* Mus. Comp. Zoöl.
S.B. 1884. Palaeontology.

Kellner, Maximilian Lindsay, *Geneva, N. Y.* Lawrence Hall 29.
A.B. (*Hobart Coll.*) 1881, A.M. (*Ibid.* and *Griswold Coll.*) 1884, D.B. (*Griswold Theol. Sem.*) 1884, A.B. (*Harvard Univ.*) 1885, A.M. (*Ibid.*) 1886, D.B. (*Epis. Theol. School*) 1886. Instructor in Hebrew, Episcopal Theol. School. Old Testament and Semitic Languages (one course).

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Ladd, George Edgar, *Bradford*, Bradford.
A.B. 1887. Geology, Chemistry, and Surveying.

Lane, Alfred Church, *Boston*, 623 Tremont St.,
A.B. 1883. Assistant, U. S. Geological Survey. Geology. [Boston.

Lewis, Leo Rich, *South Boston*, 130 K St., So. Bost'n.
A.B. (*Tufts Coll.*) 1887. Music and Modern Languages.

Lloyd, Alfred Henry, *Montclair, N. J.* Hilton Block 23.
A.B. 1886. Proctor. Philosophy.

Lochman, Myron Augustus, *Cambridge*, 84 Wendell St.
A.B. 1887. History and Fine Arts.

Loeser, Charles Alexander, *New York, N. Y.* 736 Cambridge St.
A.B. 1886, A.M. 1887. Philosophy.

Loud, Charles Eliot, *Boston*, 135 Mt. Vernon St.,
A.B. 1887. Law, Political Economy, and Modern Languages. [Boston.

Luce, Linn, *Waltham*, H. 1.
A.B. 1887. History, Philosophy, and Fine Arts.

Lunt, Edward Clark, *Malden*, G. 24.
A.B. 1886, A.M. 1887. Proctor. Political Science.

McGehee, Charles Christopher, *Atlanta, Ga.* 49 Oxford St.
Ph.B. (*Univ. of Ga.*) 1887. English, History, and Political Economy.

Markley, Joseph Lybrand, *E. Nantmeal, Pa.* 26 Mellen St.
A.B. (*Haverford Coll.*) 1885, A.M (*Ibid.*) 1886, (*Harvard Univ.*) 1887. Morgan Fellow. Mathematics.

Miller, Adolph Caspar, *San Francisco, Cal.* 714 Cambridge St.
A.B. (*Univ. of Cal.*) 1887. Political Science.

Miyabe, Kingo, *Tokio, Japan*, 9 Story St.
S.B. (*Sapporo Agricultural Coll., Japan*) 1881. Botany and German. [Boston.

Mullen, Thomas Aloysius, *South Boston*, Boston Latin Sch.,
A.B. 1884. Teacher, Boston Latin School. Classical Philology (one course).

Nicolson, Frank Walter, *Spring Hill, N. S.* S. 19.
A.B. (*Mt. Allison Coll.*) 1883, (*Harvard Univ.*) 1887. Classical Philology.

Nolen, William Whiting, *Philadelphia, Pa.* Little's Block 6.
A.B. 1884, A.M. 1886. Proctor. Political Science, etc.

Oppenheim, Samson David, *New York, N. Y.* Felton Building 12.
S.B. (*Coll. of the City of N. Y.*) 1887. Modern Languages, etc.

Parker, George Howard, *Philadelphia, Pa.* D. 20.
S.B. 1887. Assistant in Zoölogy. Zoölogy and Organic Chemistry.

Phillips, Herbert Clyde, *New Castle, Pa.* M. 36.
Lit.B. (*Dartmouth Coll.*) 1887. Philosophy, etc. [bridgeport.

Philputt, Allen Bearden, *Bloomington, Ind.* 38 Pearl St., Cam-
A.B. (*Indiana Univ.*) 1880, A.M. (*Ibid.*) 1886. Tutor, Indiana University. Morgan Fellow. Classical Philology.

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Quinby, George Totten, *New York, N. Y.* 739 Cambridge St.
A.B. 1887. Geology and Chemistry.

Richards, Theodore William, *Philadelphia, Pa.* 27 Ellery St.
S.B. (*Haverford Coll.*) 1885, A.B. 1886. Morgan Fellow. Chemistry.

Robinson, James Harvey, *Bloomington, Ill.* 35 Milford St., [Boston
A.B. 1887. History.

Robinson, William Sanford, *Dorchester,* S. 15.
A.B. 1887. Chemistry.

Rodemann, Georg Richard, *Elizabeth, N. J.* 46 Mt. Auburn St.
A.M. 1887. Classical Philology.

Sabine, Wallace Clement, *Columbus, O.* 10 Dana St.
A.B. (*Ohio State Univ.*) 1886. Morgan Fellow. Mathematics and Physics.

Sawin, George William, *Cambridge,* S. 7.
A.B. 1884, A.M. 1886. Instructor in Mathematics. Mathematics.

Scott, Henry Edwards, *Cambridge,* W. 7.
A.B. 1881. Proctor. History.

Setchell, William Albert, *Norwich, Conn.* D. 4.
A.B. (*Yale Univ.*) 1887. Morgan Fellow. Biology.

Shea, Daniel William, *Greenland N. H.* 15 Sumner St.
A.B. 1886. Physics and Mathematics.

Snow, William Brackett, *Stoneham,* Stoneham.
A.B. (*Boston Univ.*) 1885. Teacher, English High School, Boston. Mathematics and French (two half-courses).

Snyder, William Henry, *Alfred, Me.* C. 62.
A.B. (*Colby Univ.*) 1885. Chemistry and Geology.

Sondheim, Eugene, *New York, N. Y.* 712 Cambridge St.
A.B. (*Coll. City of N. Y.*) 1887. Political Economy, History, and English.

Spalding, Walter Raymond, *Cambridge,* 13 Follen St.
A.B. 1887. Greek, Latin, German, and Music.

Stone, William Abbott, *Cambridge,* 48 Shepard St.
A.B. 1886. Teacher, Cambridge Latin School. Mathematics (one half-course).

Sturgis, William Codman, *Manchester,* 14 Mt. Vernon St., [Boston.
A.B. 1884. Botany and Chemistry.

Sumner, John Osborne, *Ilchester, Md.* W. 28.
A.B. 1887. History, Philosophy, and Fine Arts.

Sumrall, William Lawson, *Danville, Ky.* 13 Kirkland Pl.
A.B. (*Centre Coll., Ky.*) 1887. English and Philosophy.

Thaxter, Roland, *Cambridge,* 19 Ware St.
A.B. 1882. Assistant in Botany. Botany.

Tuthill, Joseph Brown Thomas, *Santa Cruz, Cal.* G. 13.
A.B. 1887. Chemistry.

Underwood, Frank Hamilton, *Allston,* Allston,
A.B. 1886. Mathematics and Modern Languages.

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Van Cleef, Frank Louis, *Wellington, O.* G. 5.
A.B. (*Oberlin Coll.*) 1884, (*Harvard Univ.*) 1885. Proctor. Classical Philology

Webster, Hollis, *Dorchester,* Little's Block 6.
A.B. 1884. Teacher in a Private School. Fine Arts (one course).

White, George Rantoul, *Wellesley Hills,* H'ke 20.
A.B. 1886, A.M. 1887. Assistant in Organic Chemistry. Chemistry.

Whitman, Henry Arthur, *Columbia, S. C.* 727 Cambridge St.
A.B. (*Univ. of Ga.*) 1868, A.M. (*Ibid.*) 1870, (*So. Baptist Theol. Sem.*) 1878 A.M. 1887. Philosophy of Religion.

Whitney, Edson Leone, *Boston,* 5 St. Charles St., [Boston.
A.B. 1885, LL.B. (*Boston Univ.*) 1887. History and Roman Law.

Wolff, John Eliot, *Cambridge,* 20 Buckingham St.
A.B. 1879. Instructor in Petrography, Assistant, U. S. Geological Survey. Geology.

Woods, James Haughton, *Boston,* Lawrence Hall 27.
A.B. 1887. Student, Episcopal Theol. School. English (one half-course).

Woodworth, Charles William, *Champaign, Ill.* 27 Irving St.
S.B. (*Univ. of Ill.*) 1885, S.M. (*Ibid.*) 1886. Zoölogy.

NON-RESIDENT STUDENTS.

NAME.	HOME RESIDENCE.	PRESENT ADDRESS.
Brogan, Hugh Henry,	*Lowell,*	Berlin, Germany.
A.B. 1885. Tyndall Scholar.	Physics.	
Carpenter, George Rice,	*Andover,*	Berlin, Germany.
A.B. 1886. Rogers Fellow.	Comparative Philology and Literature.	[Taubenstrasse, 21, III.
Gates, Lewis Edwards,	*Cambridge,*	Berlin, Germany.
A.B. 1884. Kirkland Fellow.	English.	
Greene, Herbert Eveleth,	*Garden City, L. I.*	Garden City, L. I.
A.B. 1881, AM. 1884. Teacher, Cathedral School of St. Paul.		English.
Hartshorn, George Trumbull,	*Taunton,*	Taunton.
A.B. 1882, A.M. 1883.	Chemistry.	
Haskell, Mellen Woodman,	*W. Roxbury,*	Göttingen, Germ.
A.B. 1883, A.M. 1885. Parker Fellow.	Mathematics.	[Schildweg, 11.
Hildreth, Henry Theodore,	*Cambridge,*	Berlin, Germany.
A.B. 1885. Parker Fellow.	Classical Philology.	[Potsdamerstrasse, 123, III.
Isham, Charles,	*New York, N. Y.*	New York, N. Y.
A.B. 1876.	History.	[5 East 61st St.
Mack, Julian William,	*Cincinnati, O.*	Berlin, Germany.
LL.B. 1887. Parker Fellow.	Comparative Law.	[Potsdamerstrasse, 113, II.
Osgood, William Fogg,	*Milton,*	Göttingen, Germany.
A.B. 1886, A.M. 1887. Harris Fellow.	Mathematics and Physics.	[Friedländerweg, 5 A.

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Santayana, George,	*Roxbury,*	Berlin, Germany.
A.B. 1886. Walker Fellow.	Philosophy.	
Snyder, Edmund Nathaniel,	*Cleveland, O.*	Berlin, Germany.
A.B. 1886. Rogers Fellow.	Classical Philology.	[Lothringer Strasse, 86, III.
Webster, Arthur Gordon,	*Newton Centre,*	Berlin, Germany.
A.B. 1885. Parker Fellow.	Physics.	[Anhalt u. Wagener, 5 Brüderstrasse.

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THE GRADUATE DEPARTMENT.

The Graduate Department of Harvard University is under the charge of the Academic Council, which consists of the President and the Professors and Assistant Professors of the whole University.

ADMISSION OF STUDENTS.

Applications for admission to the Graduate Department are received by the Academic Council, and should be made at the beginning of the academic year. Admission is ordinarily granted to Bachelors of Arts and Bachelors of Science of Harvard University; and to Graduates of other Colleges and Scientific Schools of good standing, who present satisfactory evidence of character and qualifications. Other persons, of suitable age and attainments, may also be admitted, by special vote of the Academic Council in each case.

An application from any person holding an academic degree may be made by filling out and depositing a registration blank at the office of the University, at No. 5, University Hall, Cambridge. If the applicant is not a graduate of Harvard University, he must also file at the same office, for the consideration of the Council, (1) a diploma, or official certificate, of *graduation* at some institution of advanced education, and (2) satisfactory certificates of *scholarship* and *character*. He may also be called upon for a *catalogue* of the institution at which he was graduated, and for a statement concerning his course *since graduation*, and should be prepared to furnish these additional documents, on demand.

The Academic Council will vote on applications for admission to the Graduate Department at the next following stated meeting of the Council. Persons intending to enter the Graduate Department, and desirous of knowing whether their qualifications will probably be deemed sufficient by the Academic Council, may apply for information by letter to *The Secretary of Harvard University*, No. 5, University Hall, Cambridge, Mass.

For informatian concerning the conditions on which *Degrees* are open to members of the Graduate Department, see pp. 266–270.

THE REQUIREMENT OF RESIDENCE.

All members of the Graduate Department, with the special exceptions noted below, are required to pursue their studies at this University; and are generally expected to attend the exercises in some course or courses

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of instruction, and to perform all the required work (including examinations) in such courses; or to carry on regular work in some laboratory or museum or in the library, under the frequent inspection and criticism of instructors in the University.

But holders of travelling fellowships, pursuing their studies elsewhere with the sanction of the Academic Council, are registered as non-resident members of the Graduate Department.

Students who are conducting special investigations which require their absence from the University and those who have completed a period of residence at the University, and are carrying on actual studies with the purpose of becoming candidates for a degree, may also be allowed to register in the Graduate Department as non-resident students, under such conditions as may be imposed in each case.

The requirements of study and residence for the several degrees are stated below (pp. 266–270).

REGISTRATION AND REPORT.

Every member of the Graduate Department is required to register at the office of the University, at No. 5, University Hall, at the beginning of each academic year, on or before *the first Wednesday in October*, and to fill out an official blank there provided. He must at the same time obtain authority at the same office, if he is to be in residence, to attend instruction in the University.

Holders of travelling fellowships and other graduate students who are absent from the University by leave of the Academic Council must register by letter, having previously obtained the necessary blank by application to *The Secretary of Harvard University*.

A student who omits to register at the prescribed time without a satisfactory excuse is liable to be dropped from the list.

Every student is required to enter in his registration paper, with other particulars there called for, a brief statement of his plan of study for the year; and also of his actual work for the preceding year, if he was then a member of the Graduate Department.

A student who continues in the Graduate Department for more than one year, with the expectation of applying for a degree, may also be called upon, or may think it desirable, to submit a more detailed written statement of his work for each year, at its close or at the beginning of the next year.

Holders of travelling fellowships and other non-resident graduate students are required to make each year a full report to the Academic Council.

Any graduate student who alters his address or his plan of study, or who discontinues his residence at the University, or is absent therefrom

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for more than one week in term time, or who engages in any regular occupation not stated by him in registering, or who in any way departs from the conditions under which he is understood to be studying, must give immediate notice of the change, and must file a new registration paper (if the change is permanent), at the office of the University.

A student who withdraws from the Graduate Department in the course of an academic year is required to give immediate notice at the office of the University and at the Bursar's office. No deduction from the full year's fees will be made in the case of a student withdrawing in the course of a year, unless he gives the notices here called for.

STUDIES.

In May of each academic year, the Faculty of Harvard College issues an Announcement of the Courses of Instruction provided for the following academic year. This Announcement (called the Elective Pamphlet) can be obtained on application to *The Secretary of Harvard University*, No. 5, University Hall, Cambridge, Mass. It includes all the courses offered in the College proper, in the Lawrence Scientific School, and in the Graduate Department. The enumeration of these courses, except some of those offered at the Scientific School, will be found, for the year 1887–88, on pp. 93–120 of this Catalogue. Any course in this list is open to members of the Graduate Department who present sufficient evidence of qualification for that course.

A graduate student, possessing the necessary qualifications, may take some of his courses in a professional school. Any member of the Graduate Department, paying the full fee of $150 per year, is admitted free to the instruction and the examinations given in any other department of the University, with the exception of exercises carried on in the special laboratories.

Graduate students are admitted, on the payment of certain fees, to work in the Jefferson Physical Laboratory; the Chemical Laboratory in Boylston Hall; the Mineralogical Cabinet and Laboratory; the Museum of Comparative Zoology; the Botanic Garden and Herbaria and the Botanical Laboratory; and (in special cases) at the Bussey Institution. See pp. 306–313.

An account of the University Library will be found on pp. 303–305.

Graduate students have the right to use, and borrow books from, the College Library. Attention is especially called to the reserved-book system of this library, of which important use is made in many courses of instruction. Graduate students may likewise obtain access to the libraries of the Divinity, Law, Medical, and Scientific Schools, and the other branches of the University Library. The neighborhood of Boston, more-

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over, brings within the reach of properly equipped students numerous opportunities for making use of the large and valuable libraries and scientific and art collections which that city contains.

Besides the Announcement of Courses, called the Elective Pamphlet, supplementary pamphlets or sheets, containing detailed accounts of the courses offered in the following branches of study: — namely, The Semitic Languages; Sanskrit; Classical Philology; English; French; Romance Philology; Political Economy; Music; Mathematics; Physical Geography, Geology, and Palaeontology; Botany and Zoölogy; — are also issued, and may be obtained on application to *The Secretary of Harvard University*. These latter publications embrace important particulars about the text-books, the methods of instruction, the objects, scope, and mutual connections of the several courses, and the various advantages which students may find outside of the courses. Students unfamiliar with the arrangement of courses at this University, and intending to enter the Graduate Department, are especially advised to consult these publications (which are known as Descriptive Statements).

The University also publishes an Account of the Graduate Department, which may be obtained on application to *The Secretary of Harvard University*. This pamphlet contains a statement of courses offered in the different branches of learning, and is intended to call the attention of persons who may be contemplating a period of study here as graduate students to such features of the system and apparatus of instruction as are likely to be chiefly interesting to them.

DEGREES.

Any member of the Graduate Department who wishes to become a candidate for the degree of *Bachelor of Arts*, *Master of Arts*, *Doctor of Philosophy*, or *Doctor of Science*, is required to present a written application at the Office of the University for admission to examination for the degree. The *tenth day of January*, preceding the examination, is the regular date for making this application; but it may be made later, provided all examinations already held in the courses of instruction taken by the student have been passed, and all other requirements for the degree, up to the time of application, have been complied with. The application should be accompanied, in each case, by a statement of the course or field of study on which the applicant will offer himself for examination, and, if he is an applicant for the degree of Ph.D. or S.D., by the title of his thesis.

The application should be addressed to the College Faculty, if it is for examination for the degree of A.B.; to the Academic Council, if for examination for A.M., Ph.D., or S.D. No graduate student can present himself as a candidate for one of these degrees, until his application for admission to examination has been granted.

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Students, not holding the degree of A.B. from Harvard University, who wish to become candidates for the degree of A.M. or Ph.D. must obtain the consent of the College Faculty, before they can be admitted to examination by the Academic Council. Such students, and also those who wish to be candidates for the degree of A.B., are advised to make *early application* to the College Faculty for information as to the conditions which that Faculty will impose; so as to conform their plans of study to such conditions.

Students, not holding the degree of S.B. from Harvard University, cannot be admitted to examination for the degree of S.D., without the previous consent of the Scientific Faculty; for which it is recommended, in like manner, that *early application* be made.

The Degree of A.B.

A student who wishes to be a candidate for the degree of A.B. must have studied for such time as the College Faculty shall require (at least *one academic year*) at this University; and must have pursued a course of study approved by the College Faculty as affording suitable preparation for the degree, and have passed all the examinations in that course in a satisfactory manner.

Qualification for candidacy for A.M., Ph.D., or S.D.

A student who wishes to become a candidate for the degree of A.M. or Ph.D. must, before entering on his studies for that degree, have attained the degree of A.B. at this University; or have pursued successfully, at some other college, university, or institution of advanced education, a course of study which must be accepted by the Faculty of Harvard College, with or without special conditions as to further study, as qualifying the student for candidacy for the degree of A.M. or Ph.D. The degree of A.B. is commonly required.

A student who wishes to become a candidate for the degree of S.D. must, before entering on his studies for that degree, have attained the degree of S.B. or C.E. at this University; or have pursued successfully, at some other institution of advanced scientific education, a course of study which must be accepted by the Faculty of the Lawrence Scientific School, with or without special conditions as to further study, as qualifying the student for candidacy for the degree of S.D. The degree of S.B., Ph.B., or C.E. is commonly required.

Requirements of Time.

The *least periods* of study and residence required for the degrees of A.M., Ph.D., and S.D., of students already having the proper qualifications for candidacy, as above defined, are as follows: for A.M., *one year*

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of study at the University, in the Graduate Department, or (in the case of a student who is pursuing a professional course of study) in a professional department; for Ph.D., *two years* of study at the University, in the Graduate Department; for S.D., *three years* of special scientific study in the Graduate Department, of which at least two must be years of study at the University. But the Academic Council may, for sufficient reasons, remit one of the two years of residence (not of study) for the degree of Ph.D.or S.D. to Bachelors of Arts or Science of Harvard University. Candidates for the degree of S.D., who hold both the degree of A.B. and that of S.B. from Harvard University, may become candidates for the degree of S.D. after *two years* of further study.

These periods must, however, be regarded merely as *minimum* periods required for the several degrees. They must often be exceeded; especially in the case of persons partly occupied in other work, of graduates of other institutions, and of any persons studying for the degree of Ph.D. or S.D.

No year can be counted to a student as a full year of study for a degree which is not entirely devoted to studies approved by the Academic Council as forming a year's work for that degree. A student who means to become a candidate for the degree of Ph.D. or S.D. should consult the chairman of his committee at the beginning of each year, about his plan of study.

Grounds of the Degree of A.M.

The degree o A.M. is conferred on a student who passes, with high credit, an examination on a course of study proposed by the student, and approved by the Academic Council as a suitable preparation for the degree; and this course of study may be limited to a single department, or may have a miscellaneous character. If the student is an A.B. of Harvard University, or has been accepted by the College Faculty without special conditions as qualified for candidacy for the degree of A.M., the requirement for the degree ordinarily consists of *four full courses of instruction*, of advanced grade, pursued for one academic year.

The Academic Council will approve studies pursued in the Professional and Scientific Schools as constituents of a one year's course for A.M.; but only when the Council is satisfied that the candidate has no intention or expectation of offering any of the same studies for another degree.

The degree of A.M. may also be conferred on students having the degree of A.B. (conferred by Harvard University, or accepted as sufficient by the College Faculty), simultaneously with the degree of D.B., LL.B., M.D., S.B., or C.E., and on the same course of study. The degree is thus given, on the nomination of the appropriate Faculty, and on the recommendation of the Academic Council, and only after the longest

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course of study and residence provided for the professional degree, and upon examinations passed with high credit. Professional students, properly qualified, who wish to be candidates for the degree of A.M. on these terms should apply to the Faculty of their School on or before the *first day of June* in the year of their graduation at the School. If not Bachelors of Arts of Harvard University, they should make early application to the College Faculty for the acceptance of their degree of A.B.

Candidates for the degree of A.M. studying in the professional schools as members of those schools do not register as members of the Graduate Department.

Grounds and Standing of the Degrees of Ph.D. and S.D.

The degree of Ph.D. or S.D. is given, not for the mere reason of faithful study for a prescribed time or in fulfilment of a determinate programme (even though approved by the Academic Council), and never for miscellaneous studies, but on the ground of long study and high attainment in a special branch of learning, manifested not only by examinations, but by a thesis, which must be presented and accepted before the candidate is admitted to examination, and must show an original treatment of a fitting subject, or give evidence of independent research.

Any person on whom the University confers the degree of Ph.D. or S.D. is thereby recognized as qualified to give instruction to candidates for this degree in the department in which he has taken the degree, and to advance knowledge in that department by his own investigation.

A candidate for the degree of Ph.D. must offer himself for examination in some one of the following departments: Philology; Philosophy; History; Political Science; Mathematics; Physics (including Chemistry); Natural History; and Music. Within his chosen department, he must name some special field of study, approved as sufficient by the committee of the Academic Council in that department. He is liable to minute examination on the whole of that special field; and is also required to prove such acquaintance with the subject-matter of his department in general as the committee in that department shall require.

A candidate for the degree of S.D. must offer himself for examination on two subjects, or fields of study, belonging to the range of the mathematical, physical, and natural sciences. He must show special attainments in one of these subjects, and is liable to minute examination in the whole ground which it covers; and he is also required to have such general knowledge in the department to which his special studies belong as the committee in that department shall require. His thesis must embody some contribution to science or some special investigation.

An applicant for the degree of Ph.D. or S.D. must hand a fair copy of his thesis, on or before the *first day of May*, to the chairman of the com-

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mittee in his department of study; and the chairman has power to reject a thesis not plainly written. No candidate is admitted to examination till his thesis has been approved by the committee; and, on the approval of the thesis, and as early as the *first day of June*, the thesis is deposited at the office of the University for inspection by any member of the Academic Council, with a certificate of approval, signed by a special committee.

A successful candidate is allowed to print his thesis as one accepted for the degree, with the certificate of approval and the signatures of the approving committee; and either a printed or a written copy of the thesis and the original certificate must be deposited in the Library, and must be open to public inspection.

The department of study in which the degree of Ph.D. or S.D. is conferred is named in the quinquennial catalogue of the University; and the department, the special branch of the department, and the title of the thesis are named in the Commencement programme and the next following annual catalogue.

The degree of Ph.D. carries with it that of A.M., the full title of the degree being *Doctor of Philosophy and Master of Arts.*

A student who has taken the degree of A.M. may count the study and residence, already offered for that degree, towards the degree of Ph.D. also; provided the Academic Council approve such study and residence as in itself suitable to be counted for the degree of Ph.D.

FELLOWSHIPS AND SCHOLARSHIPS.

☞ The attention of students who purpose to enter the Graduate Department from some other college is specially called to the Morgan Fellowships.

THE HARRIS FELLOWSHIP was founded in 1868 by William Minot, jr., as executor of HENRY HARRIS, with an original endowment of ten thousand dollars. The yearly income of this foundation, now $500, is applied under the following conditions established by the founder: —

"That this income be given to some graduate of acknowledged excellence in one or more departments of literature or science (but not necessarily of the highest college rank), for one or more years; that the recipient satisfy the Corporation of his need of such aid, and his purpose to make the most of it; that residence at Cambridge be required, unless excused for substantial reasons, and that marriage be a disqualification; that studies for the professions of law, theology, or medicine, be excluded from the studies of the recipient; and that the Corporation be authorized to make such other restrictions and conditions as in its judgment will best secure from the recipient his entire devotion to accurate scholarship or the higher branches of science."

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THE ROGERS FELLOWSHIPS were founded in 1869 by HENRY BROMFIELD ROGERS, with an endowment of twenty thousand dollars, and with the following objects and conditions: —

". . . For the encouragement and attainment of a higher, broader, and more thorough scholarship than is required or expected of Undergraduates, in all sound literature and learning, except science strictly so called, . . .

"1. I direct that the Corporation, from time to time, shall select from the Senior Class the member whom, from his natural gifts, attainments, and general character, intellectual and moral, they, after consultation with the Faculty of the College, shall deem best fitted to attain the object contemplated by this donation, and shall offer to him from said income and profits an annual grant of money, upon the following conditions, viz.: —

"That he shall reside at Cambridge, and shall faithfully devote his time and thoughts to the pursuit of such branches and courses of study as he, with the approbation of the Corporation, may select. That, whilst a recipient of this grant, he shall engage in no studies designed to prepare him for a special profession, nor in any other business or occupation except that of a Proctor of the College, or an occasional examiner of some of the classes, at the request of the Corporation. That, from time to time, he shall be subject to be called upon to give such evidence of his fidelity and proficiency as the Corporation may require, and especially to write essays and dissertations upon such subjects, within the circle of his studies, as they shall designate; and these, when completed, shall be at their disposal.

"2. I direct that the grant shall be from year to year; and that the amount thereof, in the first instance, shall not exceed the sum of eight hundred dollars. . . ."

The original conditions were modified, in 1877, so that the Corporation may, at their discretion, appoint a graduate of longer standing than that above prescribed, and may permit the incumbent to reside abroad for the purposes of study. A second fellowship was in the year 1886 established on this foundation; and the income of each fellowship is $750.

THE PARKER FELLOWSHIPS. — Four Fellowships of the annual value of $700 each have been created from the income of the bequest of JOHN PARKER, JR., received in 1873. These Fellowships may be held by graduates of Harvard College or of any other department of the University, for a term not exceeding three years in any case. Appointments to these Fellowships are made annually by the President and Fellows of Harvard College, ordinarily upon recommendation of the Academic Council, at or about Commencement in each year; but the appointments so made

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must receive, under the provisions of the founder's will, the approval of the Governor and Chief Justice of the Commonwealth of Massachusetts and the President of the American Academy of Arts and Sciences. The holder of a Parker Fellowship must devote himself to some special course of study approved by the Academic Council; he is restricted, during his tenure of the Fellowship, from pursuing the usual studies preparatory to a profession (but not necessarily from higher professional studies), and from occupation in teaching or active business; he is liable to be called upon from time to time to give satisfactory evidence of his fidelity and proficiency; and he is liable to lose his appointment, by vote of the President and Fellows, whenever the evidence of his fidelity and proficiency shall be unsatisfactory to the Academic Council, or whenever he may become for any reason unfit, in the opinion of the President and Fellows, to hold a Fellowship.

The object of Mr. Parker's bequest is to provide the most thorough education possible for persons who possess uncommon powers in any department of knowledge, or who give promise of developing such powers, but who have not at command the means of paying for a prolonged and costly training. Incumbents of these Fellowships may study abroad, if they prefer.

THE JOHN THORNTON KIRKLAND FELLOWSHIP. — This Fellowship, having an endowment of about eleven thousand dollars, was founded in 1873 by GEORGE BANCROFT, LL.D. The incumbent of this Fellowship must, as a rule, have resided at least three years at the University as a member either of the College or of one of the Schools. The Fellowship may be held for three years, and no longer; but the appointment must be renewed from year to year, on evidence that the incumbent is fulfilling the purpose of the endowment. It may be awarded to "any young person likely to distinguish himself in either of the learned professions, or in any branch of Science, or in Architecture, Sculpture, Painting, Music, or Letters." The appointment to this Fellowship is made by the President and Fellows, on recommendation of the Academic Council, at or about Commencement in each year. The incumbent may study abroad, if he prefer. The yearly income of this Fellowship is now $550.

THE JAMES WALKER FELLOWSHIP. — This Fellowship, having an endowment of ten thousand dollars, and an income of $500, was established in 1881 by gift of the friends and pupils of the late President WALKER, In awarding the Fellowship, the President and Fellows are to give the preference to a student of ethics, metaphysics, and those related branches of knowledge to which Dr. Walker chiefly devoted his life.

THE MORGAN FELLOWSHIPS. — Six Fellowships of the annual value of $500 each have been established, four in 1884 and two more in 1887, by

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the gift of the late HENRY T. MORGAN of New York. These Fellowships are to be assigned to persons undertaking advanced studies, in the departments in which the degrees of Doctor of Philosophy and Doctor of Science are given. The applicant need not have received, or be a candidate for, any academic degree, but must exhibit proof of such previous training, attainments, and capacity, as promise special fitness for the work which he undertakes. The holder of a Morgan Fellowship is required to carry on his studies subject to the approval and under the supervision of the Standing Committee in the department in which his studies lie, to reside in Cambridge through the academic year, and to engage in no other occupation, except such public instruction as may have been approved by the Academic Council. The term of appointment to a Morgan Fellowship will be one year, but the holder will be eligible for appointment for a second term.

The appointment is made annually by the President and Fellows on recommendation of the Academic Council, at or about Commencement in each year.

THE JOHN TYNDALL SCHOLARSHIP, with an annual income of five hundred dollars, was founded in 1885 by Professor TYNDALL, who gave to Harvard College the sum of ten thousand eight hundred dollars, with directions "to apply the whole net income thereof in supporting or assisting to support one or more American pupils who may have shown decided talents in Physics, and preferably such as shall express the determination to devote their lives to the advancement of theoretic science and original investigation in that department of learning.

"Each person so assisted shall be either a graduate or a student in some department of Harvard University, but not necessarily a candidate for a degree.

"His studies and researches may be conducted at such places in America or at such European Universities as may be considered most desirable, and shall be approved by the Academic Council of Harvard University.

"Such assistance may be continued to the same student from year to year so long as may be recommended by the Academic Council; but the appointment must be renewed annually, and only upon satisfactory evidence that the incumbent is fulfilling the purpose of the endowment. The student should be required from time to time to furnish evidence of his fidelity, proficiency, and good character.

"If in the course of any year no student of sufficient ability and promise shall require aid from said fund, or for any reason the whole income of said fund shall not be expended, the surplus may either be added to the principal or may be expended in addition to the income of a subsequent year or years.

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"The President and Fellows are authorized at their discretion to impose such conditions and make such requirements upon the recipient of aid from said fund as will best secure his faithful devotion to the purposes of this foundation."

The ROBERT TREAT PAINE FELLOWSHIP of SOCIAL SCIENCE, established in 1887, has an endowment of ten thousand dollars, the gift of Robert Treat Paine of the Class of 1855.

The annual income is $500, and may be awarded "to one or more graduates of any department of the University, wishing to study either at home or abroad the ethical problems of society, and the efforts of legislation, governmental administration and private philanthropy to ameliorate the lot of the masses of mankind.

"Appointments shall be made for the term of one year only, but may be renewed at the discretion of the President and Fellows."

The times of application for appointment *or reappointment* to a Fellowship are as follows: —

APPLICATIONS for the Parker, Kirkland, Walker, and Paine Fellowships must be in the hands of the *Secretary of the Academic Council*, as early as the last Wednesday in March.

APPLICATIONS for the Tyndall Scholarship must be in the hands of the *Secretary of the Academic Council* on or before May 10.

APPLICATIONS for the Morgan Fellowships must be in the hands of the *Secretary of the Academic Council* on or before May 15.

APPLICATIONS for the Harris and Rogers Fellowships must be in the hands of the *Dean of the College Faculty* on or before the last Wednesday in May.

An application for any of the above fellowships made by a person who is for the first time a candidate should specify his qualifications, the course of study to which he wishes to devote himself, and the place and general manner in which he purposes to pursue that course. An application by an incumbent for the renewal of his appointment should be accompanied by a full report upon the work which he has already done while a Fellow, or since the period of his last previous report, and a sketch of that which he purposes to do.

Every incumbent must, from the date of his appointment, keep the Secretary of the Academic Council (if he hold a Parker, Kirkland, Walker, Morgan, or Paine Fellowship, or the Tyndall Scholarship) or the Dean of the College Faculty (if he hold a Harris or Rogers Fellowship) constantly informed of his address and of the course which he is taking in fulfilment of the purposes of his appointment. He is also expected to present a report on retiring from his fellowship.

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College Scholarships.

Some of the College Scholarships, which are given upon nomination by the College Faculty, are assigned each year to graduate students. These appointments are made at the close of the academic year, for the next following academic year. Application must be made to the *Dean of the College Faculty* on or before the *last Wednesday in May*.

PRIZES.

The following prizes are administered by the Academic Council: —

The Toppan Prize.

A prize of *one hundred and fifty dollars*, the gift of Robert Noxon Toppan, of the class of 1858, is offered for the best Essay (of sufficient merit) on one of the subjects in Political Science proposed below.

The prize is open for competition to all students of the Graduate Department or of any of the Professional Schools, who have received an academic degree, and to all Graduates of the College of not more than three years' standing.

The subjects proposed for the year 1887–88 are: —

1. *The recent revival of Colonization.*
2. *The Progress and Effects of the division of Landed Property in France since* 1789.
3. *The original and the derived features of the Constitution of the United States.*

Essays must be deposited at the President's office on or before the *first day of May*, 1888.

The subjects for the year 1888–89 are: —

1. *The relations between the Executive and the Legislature in a Democratic Republic.*
2. *Fair Trade as a substitute for Free Trade.*
3. *The effect of the Caucus System on Parliamentary Government.*

Essays must be deposited at the President's office on or before the *first day of May*, 1889. In every case the writer must inscribe an assumed name on the title-page. A sealed letter must be sent in at the same time, under cover with the Essay, containing the true name of the writer, with the date of his graduation; and this letter must be superscribed with the assumed name. Any manuscript not plainly written may be rejected. The prize will not be awarded to any Essay that does not give such evidence of solid study, sound thought, and literary care, as would, in the opinion of the judges, warrant its publication.

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The Sumner Prize.

An annual prize of *one hundred dollars*, the gift of Charles Sumner, of the Class of 1830, is offered for the best dissertation by a student of the University in any of its Departments on a subject connected with the topic of Universal Peace and the methods by which War may be permanently superseded.

The subjects for 1887–88 are: —

1. *The Geneva Red Cross; — its Origin, its Progress, its Prospects.*

2. *Great national Armaments in time of Peace; — their Causes, their Continuance, their Evils, the chances of their Decline.*

Dissertations must be deposited at the President's office on or before the *first day of May*, 1888.

The subjects for 1888–89 are: —

1. *Accomplished or proposed mitigations of the Rules and Practice of War in the last half-century.*

2. *The probable influence of the Irish in America on the friendly relations between the United States and Great Britain.*

Dissertations must be deposited at the President's office on or before the *first day of May*, 1889.

The dissertations must be clearly written upon letter paper of quarto size, the sheets securely stitched together, and a sufficient margin left on all sides to enable the manuscript to be properly bound.

The title-page of a dissertation offered for the prize must be inscribed with an assumed name, and the dissertation must be accompanied by a sealed letter containing the true name and the University standing of the writer, and superscribed with his assumed name.

The prize will not be awarded to any dissertation which is not, in the judgment of the Committee, worthy of publication as a creditable contribution to the literature of the subject.

The *Bowdoin Prizes* (class I.), the *Chauncey Wright Prize*, the *Dante Prize*, and the *Sargent Prize*, administered by the College Faculty, are also open for competition to members of the Graduate Department. See pp. 132–136.

FEES, BONDS, AND EXPENSES.

The full annual tuition-fee of a graduate student is $150.

A graduate student who pays the full tuition-fee is entitled, without further payment, to attend any of the courses of instruction in any department of the University (except exercises carried on in special laboratories), and to be examined in such courses. He has the right to use the

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University Library; and, on the further payment of laboratory fees, he may attend, and be examined in, courses of instruction, — and, if properly qualified, may be admitted to work, — in the laboratories and museums named on p. 265.

The special laboratory-fees are as follows: For each laboratory-course in Physics, the fee is $10, which covers all charges. For study in the Chemical and Mineralogical laboratories, there is a general fee, which varies from $5 to $30, according to the nature and amount of the work undertaken, and also an individual fee for the use of materials in special investigations and for breakage, and in payment of fines for violation of the laboratory regulations. For each laboratory-course in Natural History, the fee is $5, which covers all charges.

Graduate students who do not wish to take the full number of courses of instruction may register as members of the Graduate Department, and may avail themselves of many of the privileges of full membership in the University, on the following terms: —

For any course of instruction, named in the Elective Pamphlet, and not a laboratory-course, the fee is $45 a year: and for any such half-course $25 a year; up to $150 a year. But any student who takes a laboratory-course must pay the full tuition-fee of $150, besides the special laboratory-fees. For instruction not given in the regular courses, or at the laboratory, the fee will be computed at the rate of $15 for one hour a week of instruction during the academic year, up to $150. But in no case shall the tuition-fee of a graduate student, whether resident or not (non-resident holders of fellowships being excepted) be less than $30 a year; and it is never more than $150 a year.

A graduate student paying less than $150 a year is not entitled to the privilege of free admission to the instruction and the examinations given in other departments of the University.

The fee for the examination for the degree of Ph.D. or S.D. is $30; but this fee is not charged to any candidate who has paid the full tuition-fee of $150 for at least one year as a graduate student.

Graduates of the University or of other collegiate institutions, desirous of pursuing their studies at Cambridge without guidance, may enjoy the use of the Library on the payment of five dollars a year; but such graduates are not entitled to be classed as students of the University, nor will residence on these terms be accepted as residence constituting membership of the Graduate Department or qualifying for any degree.

Members of the Graduate Department, except the holders of travelling fellowships must give bonds in the sum of $200, signed by two bondsmen, one of whom must be a citizen of the United States, for the payment of all dues to the University. Instead of filing a bond, any student who prefers may pay his fees in advance, and deposit with the Bursar such a

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sum of money as may be deemed sufficient to secure payment of all other dues to the University.

No officer or student of the University will be accepted as a bondsman.

The term-bills are issued each year December 22, March 22, and one week before Commencement, and are payable respectively on January 12, April 12, and October 10; but the third bill of every candidate for a degree must be paid at least one day before Commencement. Each bill will contain one third of the annual charges. When a student severs his connection with the University, his whole bill becomes payable at once.

A student attending any course or courses of instruction for a part of a year must pay *the whole year's fee* for such course or courses, unless his fees for the year shall amount to $150.

But the following deductions are made from the *full tuition-fee* of $150 a year: —

1. If a student paying the full tuition-fee join the Graduate Department after the beginning of the academic year, he will be charged for instruction from the beginning of the *third* in which he joins; the second third beginning January 1, and the last third beginning April 1.

2. If such a student leave during the year, he will be charged only to the end of the third in which he leaves; provided he gives written notice of his withdrawal to the Secretary of the University and to the Bursar, before the end of that third. Otherwise, he will be charged to the end of the third in which notice was given.

3. If a student paying the full tuition-fee is *absent* for not less than three consecutive months at any time of the year, $30 will be deducted from his fee; if for the whole year, except the mid-year and final examinations, $100 will be deducted. A student who claims such deduction must present at the Bursar's office a certificate from the Secretary of the University as to the fact and duration of his absence. In order to obtain such a certificate, he must have given the Secretary previous notice of his intended absence.

The necessary expenses of living of a graduate student for an academic year (of thirty-eight weeks) may be estimated as follows: —

Rent and care of furnished room . .	$40 to $175
Board	133 to 304
Fuel and lights	20 to 50
	$193 to $529

For the total yearly expenditure (including the full tuition-fee, books, room, board, fuel, lights, clothing, etc.), $500 is enough for a student who practices strict, but not unhealthful economy; $800, for one of careful and

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moderate habits; and $1000, to cover all ordinary comforts; while $1400 is a very liberal estimate for any student who does not indulge in mere extravagance.

Members of any department of the University can board at cost by joining the Association which uses the great dining-room of Memorial Hall. The cost may be expected not to exceed four dollars and a quarter per week. Applications for seats should be made, at as early a date as possible, at the Hall to the Auditor, from whom full information can be obtained. The Hall opens on the last Wednesday in September.

The Hemenway Gymnasium (see p. 308) is open to all students of the University.

For additional information about the Graduate Department, application should be made to *The Secretary of Harvard University*, No. 5, University Hall, Cambridge; who will gladly supply any information that is needed by any properly qualified person wishing to carry on his studies in the Graduate Department, whether with the purpose of becoming a candidate for a degree or not.

COMMITTEES OF THE ACADEMIC COUNCIL.

Committee in Philology. — Professors Child, Lane, J. H. Thayer, Goodwin (chairman), Bôcher, A. S. Hill, Greenough, Nash, Toy, Allen, Smith, J. W. White, Lanman, Wright, and Lyon, and Assistant Professors Bartlett, Sheldon, Cohn, Briggs, Preble, and Francke.

Committee in Philosophy. — Professors Bowen, Everett, Palmer (chairman), James, and F. G. Peabody, and Assistant Professor Royce.

Committee in History. — Professors Norton (chairman), Dunbar, Ames, Emerton, and Macvane, and Assistant Professor Young.

Committee in Political Science. — Professors Bowen, Dunbar (chairman), Langdell, and Ames, and Assistant Professors Young, Laughlin, and Taussig.

Committee in Mathematics. — Professors Lovering, J. M. Peirce (chairman), C. J. White, Pickering, Trowbridge, Chaplin, and Byerly, and Assistant Professor B. O. Peirce.

Committee in Physics (including Chemistry) and on the Tyndall Scholarship. — Professors Lovering, Cooke (chairman), Storer, Pickering, Trowbridge, Jackson, Wood, and H. B. Hill, and Assistant Professors Searle, Hills, and B. O. Peirce.

Committee in Natural History. — Professors A. Gray, Hagen, Whitney (chairman), Cooke, Goodale, Bowditch, Putnam, C. S. Sargent, Shaler, Dwight, Farlow, James, Mark, and Lyman, and Assistant Professors Davis and C. S. Minot,

Committee in Music. — Professors Lovering, Child, Greenough, Paine (chairman), Allen, and H. B. Hill.

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Committee in Theology. — Professors Everett (chairman), J. H. Thayer, Toy, Palmer, F. G. Peabody, and Lyon.

Committee in Law. — Professors Dunbar, Langdell (chairman), J. B. Thayer, J. C. Gray, and Ames, and Assistant Professors Young and Keener.

Committee in Medicine. — Professors Minot, Cheever, Goodale, Bowditch (chairman), Fitz, and W. L. Richardson.

Committee on Admissions. — Professors J. M. Peirce (chairman), Toy, Allen, Trowbridge, Farlow, and Chaplin, and Assistant Professors Sheldon, Laughlin, and Royce.

Committee on Parker and Kirkland Fellowships. — Professors Child (chairman), Cooke, Langdell, Goodwin, J. M. Peirce, Bowditch, Smith, James, F. G. Peabody, and Macvane.

Committee on Morgan Fellowships. — Professors Dunbar (chairman), Goodwin, Farlow, Byerly, and Emerton.

Committee on Commencement Exercises. — Professors Lovering, Everett, Dunbar, J. B. Thayer, A. S. Hill (chairman), Greenough, Goodale, and F. G. Peabody, and Assistant Professor Briggs.

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DEGREE, HONOR, SCHOLARSHIP, AND PRIZE LISTS.
1887.

DEGREES.

Honorary degrees were conferred as follows on occasion of the celebration of the Two Hundredth and Fiftieth Anniversary of the foundation of Harvard College, Nov. 8th, 1886: —

LL.D.

George Dexter Robinson.
Lucius Quintius Curtius Lamar.
George Frisbie Hoar.
Charles Taylor.
Mandell Creighton.
Sir Lyon Playfair.
Timothy Dwight.
Ezekiel Gilman Robinson.
Joseph Leidy.
Charles Kendall Adams.
Mark Hopkins.
Frederick Henry Hedge.
Edwards Amasa Park.
William Seymour Tyler.
Jonathan Ingersoll Bowditch.
Edward Elbridge Salisbury.
Charles Dean.
James Dwight Dana.
James Hall.
Roswell Dwight Hitchcock.
Henry Drisler.
Lincoln Flagg Brigham.
Thomas McIntyre Cooley.
Spencer Fullerton Baird.
Basil Lanneau Gildersleeve.
Samuel Pierpont Langley.
Asaph Hall.
Silas Weir Mitchell.
Henry Larcom Abbot.
George Jarvis Brush.
John Wesley Powell.
Walbridge Abner Field.
John Shaw Billings.
Rodolfo Lanciani.
Othniel Charles Marsh.
Michel Eugène Chevreul.
Theodore Dwight Woolsey.
John Greenleaf Whittier.

D.D.

William DeWitt Hyde.
George Park Fisher.
Egbert Coffin Smyth.
Alexander Viets Griswold Allen.

On Commencement Day, June 29, 1887, degrees were conferred as follows: —

Honorary.

LL.D.

Charles Eliot Norton.
James Hammond Trumbull.

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S.D.

Hermann August Hagen.

A.M.

Charles Card Smith.

In Course.

Ph.D. and **A.M.**

Morris Hicky Morgan, A.B. 1881.
Department, Philology. *Subjects*, Greek and Latin.
Thesis, "De Ignis eliciendi Modis apud Antiquos Commentatio."

S.D.

George Henry Johnson, S.B. (*Rutgers Coll.*) 1882, C.E. (*Ibid.*) 1885, S.M. (*Cornell Univ.*) 1883.
Department, Mathematics. *Subjects*, Analysis and Quaternions.
Thesis, "Surfaces of Minimum Area."

A.M.

Josiah Bridge, A.B. 1884.
Arthur Deloraine Corey, A.B. 1886.
Samuel Marcus Fechheimer, A.B. 1886.
Edward Chenery Gale, A.B. (*Yale Univ.*) 1884.
Henry Harrison Haynes, A.B. 1873, D.B. (*Epis. Theol. School*) 1877.
Henry Arnold Henshaw, A.B. 1886.
Frank Aurin Houghton, PH.B. (*Hillsdale Coll.*) 1880, S.M. (*Ibid.*) 1883.
Thomas Spencer Jerome, PH.B. (*Univ. of Mich.*) 1884.
Charles Alexander Loeser, A.B. 1886.
Edward Clark Lunt, A.B. 1886.
Joseph Lybrand Markley, A.B. (*Haverford Coll.*) 1885, A.M. (*Ibid.*) 1886.
William Fogg Osgood, A.B. 1886.
Georg Richard Rodemann (*Univ. of Berlin*).
Frank Warren Smith, A.B. 1886.
Frederic Morse Smith, A.B. (*Yale Univ.*) 1880.
George Rantoul White, A.B. 1886.
Henry Arthur Whitman, A.B. (*Univ. of Georgia*) 1868, A.M. (*Ibid.*) 1870, (*So. Baptist Theol. Sem.*) 1878.
Philip Green Wright, A.M.B. (*Tufts Coll.*) 1884.

D.B. and **A.M.**

William Wallace Fenn, A.B. 1884. Augustus Mendon Lord, A.B. 1883.

D.B.

Edward Ernest Atkinson, A.B. (*Brown Univ.*) 1879, A.M. (*Ibid.*) 1882, (*Newton Theol. Institute*) 1882, A.M. 1886.
Merle St. Croix Wright, A.B. 1881, A.M. 1884.

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LL.B. and A.M.

Benjamin Edward Bates, A.B. 1884.
Joseph Henry Beale, A.B. 1882.
Clift Rogers Clapp, A.B. 1884.
Bertram Ellis, A.B. 1884.
Francis Britain Fay, A.B. 1883.
Horatio Nelson Glover, Jr., A.B. 1884.
Arthur Gillespie Hatch, A.B. 1884.
Joseph Lee, A.B. 1883.
John Jay McKelvey, A.B. (*Oberlin Coll.*) 1884.
John Wells Morss, A.B. 1884.
John Henry Wigmore, A.B. 1883.

LL.B.

Harry Ainsworth, A.B. (*Oberlin Coll.*) 1884.
George William Brown, A.B. 1884.
Henry Bromfield Cabot, A.B. 1883.
William Franklin Dana, A.B. 1884.
William Corcoran Eustis (*Univ. of Virg.*) 1882. [A.B. 1884.
Theodore Longfellow Frothingham,
James Milton Hall, A.B. 1883.
William Allen Hayes, Jr., A.B. 1884.
Jesse Lowman, A.B. 1884.
Julian William Mack.
Charles Corbett Nichols, A.B. 1883.
John Prentiss, A.B. 1884.
Edward Everett Rapley, A.B. (*Md. Agric. Coll.*) 1883.
Frederick Silsbee Whitwell, A.B. 1884.
Alexander Winkler.

M.D. and A.M. (*Four years' course.*)

Homer Gage, A.B. 1882.
Frank Abram Harrington, A.B. 1884.
George Otis Ward, A.B. (*Brown Univ.*) 1877, A.M. (*Ibid.*) 1880.

M.D. (*Four years' course.*)

Edmund Scott Dow, A.B. 1883.
Charles Melville Whitney.

M.D. (*Three years' course.*)

Thomas Joseph Ball, A.B. (*Boston Coll.*) 1882.
William Barnes, S.B. 1883.
Stephen Haskell Blodgett.
Charles Poor Briggs, A.B. 1883.
John Sylvester Brownrigg.
John Thornton Bullard, A.B. 1884.
Hiram Hutchins Burns, A.B. (*Tufts Coll.*) 1880.
Cyrus Faulkner Carter.
Heman Lincoln Chase, A.B. 1882.
Joseph Payson Clark, A.B. 1882.
Frederic Codman Cobb, A.B. 1884.
William James Cochran.
Joseph Ambrose Cogan, A.B. 1884.
George Edward Cole.
Orville William Collins, A.B. (*Bates Coll.*) 1876, A.M. (*Ibid.*) 1879.
Thomas Conlan.
Charles Walter Connell, A.B. (*Brown Univ.*) 1881, A.M. (*Ibid.*) 1884.
William Norman Cowles.
Mott Alvah Cummings, A.B. (*Dartmouth Coll.*) 1882, A.M. (*Ibid.*) 1885.
James Henry Davenport, PH.B. (*Brown Univ.*) 1883, M.D. (*Univ. of Vermont*) 1885.
Edward Curtis Davis.
Myron Preston Denton, A.B. 1884.
Nicholas Daniel Drummey.

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Carroll Dunham, M.D. (*Bellevue Hosp. Med. Coll.*) 1887.
Michael Francis Fallon, A.B. (*Holy Cross Coll.*) 1884.
James Francis Ferry.
Charles Dalton Fillebrown.
William Boyd Fiske, A.B. 1882.
Charles Jenkins Foote, A.B. (*Yale Univ.*) 1883.
George Hills Francis, A.B. 1882.
William Joseph Gleeson.
Walter Temple Goodale, A.B. (*Bowdoin Coll.*) 1874.
Thomas Joseph Hayes.
Charles James Helm, A.B. (*Georgetown Coll.*) 1883.
George Heywood, A.B. 1883.
John Parker Holmes, A.B. 1884.
Edward Howard.
Daniel Bartholomew Hurley.
Edwin Everett Jack, A.B. 1884.
Henry Barton Jacobs, A.B. 1883.
Winthrop Marston Jameson.
John Davis Kales.
Franklin John Kaufman.
Charles Edward Vere Kennon.
Edwin Sewell Kimpton.
Elmer John La Due.
Byron Charles Leavitt, A.B. (*Dartmouth Coll.*) 1881, A.M. (*Ibid.*) [1884.
John Alvin Leitch.
Edwin Ransome Lewis.
Joshua Francis Lewis, S.B. (*Dartmouth Coll.*) 1879.
Howard Lilienthal, A.B. 1883.
William Tyler Lord, A.B. 1883.
Arthur Vinal Lyon, A.B. (*Amherst Coll.*) 1884.
Eugene Allan McCarthy, A.B. (*Boston Coll.*) 1884.
William Joseph McNally.
John Bernard Mahoney.
John Francis Mahoney, A.B. 1885.
Frank Timothy Mara, A.B. (*Holy Cross Coll.*) 1883.
Charles Bradford Mayberry, A.B. (*Tufts Coll.*) 1883, A.M. (*Ibid.*) 1884.
Harold Metcalf, A.B. (*Brown Univ.*) 1884.
Frank Adelbert Morse.
Daniel Francis Murphy.
Dennis Francis O'Callaghan.
Francis Michael O'Donnell, A.B. (*Boston Coll.*) 1882.
Michael John O'Meara, A.B. (*Holy Cross Coll.*) 1882.
James Bernard O'Neill, A.B. (*Middlebury Coll.*) 1883.
George Edward Osgood.
Thomas Francis Padula, A.B. (*Holy Cross Coll.*) 1884.
Walter Everard Paul, A.B. 1883.
John Matthews Peters.
William Abbott Phillips, PH.B. (*Northwestern Univ.*) 1883.
Henry Albert Pierce Rundlett. A.B. (*Bates Coll.*) 1878.
Henry Francis Sears, A.B. 1883.
Thomas Bernard Shea, A.B. (*Holy Cross Coll.*) 1883.
Herbert Llewellyn Smith, A.B. (*Dartmouth Coll.*) 1882.
Richard Sprague, A.B. 1881.
Lewis Tebbetts Stevens, A.B. (*Johns Hopkins Univ.*) 1882.
Waldo Henry Tyler.
William Fessenden Wesselhoeft, A.B. 1884.

D.M.D.

Peter Crank, L.D.S. (*London Dental Hospital*) 1885.
Carroll Ketcham Huntley,
Leslie Maxwell,

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Edwin Leslie Shattuck,
Frank Ellsworth Sprague,
Henry James Stark,
Edgar Fremont Stevens,
Arthur Henry Stoddard,
Charles Henry Veo,
John Daniel Wilson,
Harry Eugene Windsor,
Thomas Weston Wood, A.B. (*Brown Univ.*) 1884.
Harvey Warner Woodberry,
Charles Frederick Wright.

M.D.V.

Edward Campbell Beckett,
Charles Saunders Breed,
Francis Boyd Carleton,
Edwin James Castle,
Daniel Emerson, PH.G. (*Mass. Coll. of Pharm.*) 1884.
William Alvan Hitchcock,
William Esrom Peterson,
Emmet Walter Roche,
Ernest Charles Schroeder,
Harrison Whitney, A.B. (*Bates Coll.*) 1884.

S.B.

Robert Payne Bigelow,
George Howard Parker,
Frank Harold Sellers.

A.B.

Edward Stanley Abbot,
Walter Alexander,
James Ekin Allison,
John Lincoln Ames,
Randolph Morgan Appleton,
William Channing Appleton,
Walter Austin,
Charles Fanning Ayer,
Edward Bacon,
Frederick Harold Bailey,
George Pierce Baker, Jr.
Charles Sumner Balcombe,
Henry Blanchard Barber,
Nelson Macy Barrett,
Charles Edmund Barrow,
John Marshall Washburn Bartol,
Henry Willard Bean,
Harry Haskel Bemis,
Bernhard Berenson,
Howard Henry Charles Bingham,
Eldon Bisbee,
William Holmes Black,
John Bapst Blake,
Edward Everett Blodgett,
Herbert Clifton Bourne,
William Jackson Bowen,
Walter Lincoln Boyden,
Homer Worthington Brainard,
Henry Gaw Brengle,
Richard Briggs, Jr.
Elliott Bright,
Clarence Arthur Brodeur,
William Allen Brooks, Jr.
George Morgan Browne,
George Faunce Buck,
Henry Augustus Buck,
Edgar Buckingham,
Julian Gerard Buckley,
Walter Channing Burbank,
Theodore Phillips Burgess,
James McCormick Cameron,
Charles Churchill Carmalt,
Charles Chollet,
Bertram Fiske Clark,
Herbert Lincoln Clark,
Archibald Cary Coolidge,
Frederic Shurtleff Coolidge,
Herman Timothy Coolidge,
Daniel Thomas Costello,
John Jerome Cotter,

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Benjamin Francis Cox,
Timothy Currier Craig,
Arthur Mark Cummings,
Guy Cunningham,
Charles Francis Adams Currier,
Wilton Lincoln Currier,
John Newmarch Cushing, Jr.
Charles Allerton Cushman,
Eugene Vincent Daly,
Frederic Alva Dean,
Daniel Denny, Jr.
Gordon Dexter,
Ellis Loring Dresel,
Garritt Droppers,
Albertus True Dudley,
James Willard Dudley,
Herman Le Roy Edgar,
Charles Stanford Elgutter,
Edward Stanley Emery,
William Endicott, 3d,
William Edward Faulkner,
Edward Fiske,
Robert Francis Fiske,
Elisha Flagg,
Jefferson Butler Fletcher,
Walter Forchheimer,
Chauncey Charles Foster,
George Waldo Foster,
Ditlev Gothardt Monrad Frederiksen,
Robert Warner Frost,
Albert Fuller,
George Pope Furber,
William Francis Ganong, A.B. (*Univ. of New Brunswick*) 1884, A.M. (*Ibid.*) 1886.
Alfred Augustus Gardner,
Edgar Malcolm Garnett,
Carl August de Gersdorff,
Charles Ingalls Giddings,
Bancroft Lane Goodwin,
John Henry Gray,
William Traverse Gray,
Harris Grafton Hale,
Franklin Elmer Ellsworth Hamilton,
Alpheus Sumner Hardy,
Augustus Story Haskell,
Maurice Heckscher,
William Collins Herron,
William Andrew Hervey,
Louis Hicks, A.B. (*Coll. City of N. Y.*) 1885.
George Higginson, 3d,
Joseph Baker Hileman, A.B. (*Penn. Coll.*) 1884.
William Charles Hillebrand,
Charles Frank Hoover,
Silas Arnold Houghton,
Mark Antony de Wolfe Howe, Jr. A.B. (*Lehigh Univ.*) 1886.
Willard Bean Howe,
Gorham Hubbard,
Charles Hudson,
Frederick Everett Hughes,
Atherton Nash Hunt,
Thomas Hunt,
Francis Cleaveland Huntington,
Byron Satterlee Hurlbut,
Louis Fiske Hyde,
James Marsh Jackson,
Lesly Augustin Johnson,
Lewis Jerome Johnson,
Francis Richard Jones,
Lombard Carter Jones,
Frank Edge Kavanagh,
Hiram Gillett Keays,
Roger Wolcott Keep,
Christian Kestner,
Henry Wilder Keyes,
George Washington Kimball,
George Perkins Knapp,
John Holly Knapp, Jr.
Augustus Smith Knight,
John Webster Knowles,
Hamilton Kuhn,
George Edgar Ladd,
William Walton Linn,

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Everett Starr Litchfield,
Henry Jarvis Livermore,
Myron Augustus Lochman,
Howard Augustus Lothrop,
Charles Elliot Loud,
Linn Luce,
Edward Irving Manley,
Frederic Hubbell Marvin,
Fred Sumner Mead,
Edwin Joseph Meeks,
Francis Michael,
George Austin Morrison, Jr.
John Lovett Morse,
George Saltonstall Mumford,
Frank Nelson Nay,
Frank Walter Nicolson, A.B. (*Mt. Allison Coll.*) 1883.
Walter Oakes,
Otis Briggs Oakman,
Arthur Henry Osgood,
Robert Treadwell Osgood,
Edward Christopher Palmer, Jr.
Francis Sterne Palmer,
Frank Claflin Parmenter,
Charles Sharpless Pastorius,
Harry Ernest Peabody,
Lincoln Rea Peabody,
Joseph Hall Pearl,
Albert Thompson Perkins,
Henry Grover Perkins,
Samuel Welsh Perkins,
Walter Samuel Pinkham,
Alfred Arthur Poëy,
William Sears Poppleton,
Albert Bailey Potter,
Milford Seward Power,
Whitmore Preston,
Charles Seward Proctor,
Frank Ingersoll Proctor,
George Jacob Putnam,
George Totten Quinby,
Augustus Neal Rantoul,
Charles William Rantoul, Jr.
Franklin Remington,
Paul Revere Reynolds,
Thomas Newbold Rhinelander,
Fred Ball Rice,
Edgar Judson Rich,
John Wallace Riddle,
Royal Robbins,
Alfred Brookes Robinson,
Benjamin Lincoln Robinson,
James Harvey Robinson,
Thomas Johns Robinson,
William Sanford Robinson,
Emery Herman Rogers,
James Savage Russell,
Philip Sidney Rust,
Robert de Wolfe Sampson,
William Saulsbury,
Henry Schofield,
George Martin Seeley,
Charles Edward Shattuck,
Eugene Rodman Shippen,
Arthur Crittenden Smith,
Charles Gaston Smith,
Samuel Herbert Smith,
William Kanan Smith,
John Linzee Snelling,
Frank Chester Southworth,
Walter Raymond Spalding,
Stephen Berrien Stanton,
Livingston Boyd Stedman,
Albert Eugene Sterne,
Samuel Storrow,
Frank Caleb Stowell,
John Osborne Sumner,
Winthrop Tisdale Talbot,
Elwood Gardner Tewksbury,
Aaron Claflin Thayer,
Henry Adams Thayer,
Charles Sproull Thompson,
Ernest Alexander Thomson,
Barclay Tilton,
Robert Truslow,
Joseph Brown Thomas Tuthill,

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George Herman Tuttle,
Alfred Lee Tyler, Jr.
Frank Vogel,
Theodore Cramer Von Storch,
Frank Lawson Walker,
Joseph Eugene Walker,
Eugene Carroll Webster,
Alonzo Rogers Weed,
Winthrop Wetherbee,
Arthur William Wheelwright,
Sumner Wheeler White,
George Gill Whitelaw,
Benjamin Whitney,
Frank Beecher Wiestling,
Waldo Wickham Willard,
Harry Johnson Wood,
James Haughton Woods,
Richard Augustus Zerega.

Out of Course.

A.B.

Isaac Vose Bemis, as of the class of 1844.
Samuel Cook Oliver, as of the class of 1849.
Douglas Smyth, as of the class of 1868.
Henry Rust Stedman, as of the class of 1871.
Frederick Winthrop Thayer, as of the class of 1878.
Cornelius Conway Felton, as of the class of 1886.
Maurice McKim, as of the class of 1886.
William Horatio Miller, as of the class of 1886.
Robert Keith Snow, as of the class of 1886.

COMMENCEMENT PARTS.

Orations.

George Pope Furber,
Homer Worthington Brainard,
Charles Sumner Balcombe,
Joseph Eugene Walker,
Charles Sproull Thompson,
Edgar Buckingham,
Henry Schofield,
Archibald Cary Coolidge,
William Francis Ganong.

Dissertations.

Edgar Judson Rich,
Frederick Harold Bailey,
Charles Francis Adams Currier,
William Jackson Bowen,
John Henry Gray,
William Collins Herron,
Stephen Berrien Stanton,
Frank Chester Southworth,
Royal Robbins,
Albertus True Dudley,
Franklin Elmer Ellsworth Hamilton,
Linn Luce,
George Pierce Baker, Jr.
Myron Augustus Lochman,
Livingston Boyd Stedman,
Roger Wolcott Keep,
Albert Thompson Perkins,
Lewis Jerome Johnson,
Otis Briggs Oakman,
Carl August de Gersdorff,
William Channing Appleton,
Timothy Currier Craig,
Walter Samuel Pinkham,

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Milford Seward Power,
Joseph Hall Pearl,
Robert Warner Frost,
Jefferson Butler Fletcher,
Charles Ingalls Giddings,
Henry Grover Perkins,
James Haughton Woods,
John Newmarch Cushing,
Louis Fiske Hyde,
Augustus Story Haskell,
Frederic Hubbell Marvin,
John Osborne Sumner,
Joseph Brown Thomas Tuthill,
John Lincoln Ames,
Harry Ernest Peabody,
John Jerome Cotter,
William Holmes Black,
Benjamin Lincoln Robinson,
Francis Cleaveland Huntington,
Ditlev Gothardt Monrad Frederiksen,
Frank Walter Nicolson,
Clarence Arthur Brodeur,
Howard Augustus Lothrop.

Disquisitions.

John Lovett Morse,
George Faunce Buck,
Samuel Herbert Smith,
Charles Sharpless Pastorius,
Thomas Newbold Rhinelander,
Wilton Lincoln Currier,
George Austin Morrison, Jr.
Daniel Thomas Costello,
Nelson Macy Barrett,
Herman Timothy Coolidge,
Francis Richard Jones,
Robert Treadwell Osgood,
Byron Satterlee Hurlbut,
Charles Edward Shattuck,
Walter Raymond Spalding,
Hamilton Kuhn,
Harry Haskel Bemis,
Theodore Cramer Von Storch,
Willard Bean Howe,
Alonzo Rogers Weed,
Edward Stanley Abbot,
Silas Arnold Houghton,
John Marshall Washburn Bartol,
Aaron Claflin Thayer,
Eugene Vincent Daly,
Hiram Gillett Keays,
Fred Sumner Mead,
Frank Caleb Stowell,
Charles Seward Proctor,
George Morgan Browne,
Guy Cunningham,
Winthrop Wetherbee,
Walter Lincoln Boyden,
William Sears Poppleton,
Frank Vogel,
Elwood Gardner Tewksbury,
Alfred Augustus Gardner,
William Saulsbury,
Lombard Carter Jones
Henry Adams Thayer,
Maurice Heckscher,
Ellis Loring Dresel,
Albert Eugene Sterne,
Charles Fanning Ayer,
John Webster Knowles,
Alfred Arthur Poëy,
William Traverse Gray,
Benjamin Whitney,
Edward Christopher Palmer, Jr.
Henry Wilder Keyes,
Harry Johnson Wood,
Lesly Augustin Johnson,
Arthur Mark Cummings,
Julian Gerard Buckley,
William Endicott, 3d.
George Perkins Knapp,
Charles William Rantoul, Jr.

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HENRY WILLARD BEAN,
BERNHARD BERENSON,
AUGUSTUS SMITH KNIGHT,
GEORGE TOTTEN QUINBY,
LOUIS HICKS,
JOSEPH BAKER HILEMAN,
GARRITT DROPPERS.

FINAL HONORS.

In Classics.

HOMER WORTHINGTON BRAINARD,	Honors.
ALBERTUS TRUE DUDLEY,	Honors.
FRANK WALTER NICOLSON,	Honors.
FRANK CHESTER SOUTHWORTH,	Honors.

In Political Science.

GEORGE POPE FURBER,	Highest Honors.
JOHN HENRY GRAY,	Honors.
JOSEPH HALL PEARL,	Honors.
ALBERT THOMPSON PERKINS,	Honors.
EDGAR JUDSON RICH,	Honors.

In History.

ARCHIBALD CARY COOLIDGE,	Highest Honors.
CHARLES FRANCIS ADAMS CURRIER,	Honors.
MYRON AUGUSTUS LOCHMAN,	Honors.
HENRY SCHOFIELD,	Honors.

In Physics.

EDGAR BUCKINGHAM,	Honors.
MILFORD SEWARD POWER,	Honors.

In Chemistry.

GEORGE RANTOUL WHITE, A.B. 1886,	Honors.

In Natural History.

WILLIAM FRANCIS GANONG,	Highest Honors.
WILLIAM JACKSON BOWEN,	Honors.
CLARENCE ARTHUR BRODEUR,	Honors.
HOWARD AUGUSTUS LOTHROP,	Honors.
BENJAMIN LINCOLN ROBINSON,	Honors.
CHARLES SPROULL THOMPSON,	Honors.

HONORABLE MENTION.

EDWARD STANLEY ABBOT. *Natural History.*
JOHN LINCOLN AMES. *Natural History, bis.*
WILLIAM CHANNING APPLETON. *English Composition; History.*
CHARLES FANNING AYER. *Natural History.*
FREDERICK HAROLD BAILEY. *Mathematics.*

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George Pierce Baker. *English; English Composition; Philosophy; History.*
Charles Sumner Balcombe. *Greek; English Composition.*
Nelson Macy Barrett. *History.*
John Marshall Washburn Bartol. *Natural History.*
Henry Willard Bean. *English Composition; Political Economy; History.*
Bernhard Berenson. *Semitic; English Composition.*
William Holmes Black. *Chemistry.*
William Jackson Bowen. *Natural History, bis.*
Walter Lincoln Boyden. *Political Economy.*
Homer Worthington Brainard. *Greek; Latin; English Composition; Mathematics.*
Clarence Arthur Brodeur. *Natural History.*
William Allen Brooks. *Natural History.*
George Morgan Browne. *Latin.*
Edgar Buckingham. *Mathematics; Physics.*
Julian Gerard Buckley. *Music.*
Archibald Cary Coolidge. *English Composition; French; History, bis.*
Herman Timothy Coolidge. *History.*
Daniel Thomas Costello. *Greek.*
John Jerome Cotter. *History.*
Timothy Currier Craig. *History.*
Arthur Mark Cummings. *English Composition.*
Guy Cunningham. *Chemistry.*
Charles Francis Adams Currier. *English Composition; History.*
Wilton Lincoln Currier. *Philosophy.*
John Newmarch Cushing. *English Composition; History.*
Ellis Loring Dresel. *English Composition.*
Garritt Droppers. *Philosophy; Political Economy, bis.*
Albertus True Dudley. *Greek; Philosophy.*
Herman Le Roy Edgar. *Music.*
William Endicott. *Political Economy.*
Jefferson Butler Fletcher. *English Composition; Philosophy.*
Ditlev Gothardt Monrad Frederiksen. *English Composition; Political Economy; History.*
Robert Warner Frost. *History.*
George Pope Furber. *English Composition; Political Economy; History.*
Alfred Augustus Gardner. *History.*
Carl August de Gersdorff. *English Composition.*
Charles Ingalls Giddings. *Political Economy.*

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JOHN HENRY GRAY. *English Composition; Political Economy, bis; History.*
WILLIAM TRAVERSE GRAY. *Political Economy.*
FRANKLIN ELMER ELLSWORTH HAMILTON. *English Composition; Philosophy.*
AUGUSTUS STORY HASKELL. *Engineering.*
MAURICE HECKSCHER. *Fine Arts.*
WILLIAM COLLINS HERRON. *English Composition; Philosophy.*
LOUIS HICKS. *Political Economy; History.*
JOSEPH BAKER HILEMAN. *Philosophy.*
WILLIAM CHARLES HILLEBRAND. *English.*
SILAS ARNOLD HOUGHTON. *Natural History.*
WILLARD BEAN HOWE. *German.*
FRANCIS CLEAVELAND HUNTINGTON. *English Composition.*
BYRON SATTERLEE HURLBUT. *English.*
LOUIS FISKE HYDE. *Philosophy.*
LESLEY AUGUSTIN JOHNSON. *History.*
LEWIS JEROME JOHNSON. *Mathematics; Natural History; Engineering.*
FRANCIS RICHARD JONES. *Philosophy.*
LOMBARD CARTER JONES. *Natural History.*
FRANK EDGE KAVANAGH. *Philosophy.*
HIRAM GILLETT KEAYS. *Political Economy.*
ROGER WOLCOTT KEEP. *English; English Composition; History.*
HENRY WILDER KEYES. *Natural History.*
GEORGE PERKINS KNAPP. *English Composition.*
AUGUSTUS SMITH KNIGHT. *Natural History.*
JOHN WEBSTER KNOWLES. *Natural History.*
GEORGE EDGAR LADD. *Natural History.*
MYRON AUGUSTUS LOCHMAN. *Greek; Latin; English Composition; History, bis.*
HOWARD AUGUSTUS LOTHROP. *Natural History.*
LINN LUCE. *Political Economy; History.*
GEORGE AUSTIN MORRISON. *Philosophy.*
FRANK WALTER NICOLSON. *Greek; Latin.*
OTIS BRIGGS OAKMAN. *Chemistry.*
EDWARD CHRISTOPHER PALMER. *English Composition.*
FRANCIS STERNE PALMER. *English Composition.*
CHARLES SHARPLESS PASTORIUS. *Mathematics; Engineering.*
JOSEPH HALL PEARL. *Political Economy; History.*
ALBERT THOMPSON PERKINS. *Philosophy; Political Economy; History.*
WALTER SAMUEL PINKHAM. *Mathematics.*
ALFRED ARTHUR POËY. *French.*
WILLIAM SEARS POPPLETON. *History, bis.*

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MILFORD SEWARD POWER. *Physics.*
CHARLES SEWARD PROCTOR. *English Composition; Natural History.*
GEORGE TOTTEN QUINBY. *Natural History.*
CHARLES WILLIAM RANTOUL. *History.*
THOMAS NEWBOLD RHINELANDER. *English Composition.*
EDGAR JUDSON RICH. *English Composition; Political Economy; History.*
ROYAL ROBBINS. *English; English Composition; Political Economy.*
BENJAMIN LINCOLN ROBINSON. *Natural History, bis.*
JAMES HARVEY ROBINSON. *Philosophy.*
WILLIAM SANFORD ROBINSON. *Chemistry.*
WILLIAM SAULSBURY. *English; English Composition.*
HENRY SCHOFIELD. *History.*
CHARLES EDWARD SHATTUCK. *English Composition; Philosophy; Political Economy.*
SAMUEL HERBERT SMITH. *Political Economy; History.*
FRANK CHESTER SOUTHWORTH. *Greek; Latin; English Composition.*
WALTER RAYMOND SPALDING. *Greek; Latin; Music.*
STEPHEN BERRIEN STANTON. *Philosophy.*
LIVINGSTON BOYD STEDMAN. *English Composition; Political Economy.*
ALBERT EUGENE STERNE. *Natural History.*
SAMUEL STORROW. *Natural History.*
FRANK CALEB STOWELL. *History.*
JOHN OSBORNE SUMNER. *English Composition; History, bis.*
ELWOOD GARDNER TEWKSBURY. *Philosophy.*
AARON CLAFLIN THAYER. *Political Economy.*
HENRY ADAMS THAYER. *Philosophy.*
CHARLES SPROULL THOMPSON. *English Composition; Philosophy; Political Economy; Natural History.*
JOSEPH BROWN THOMAS TUTHILL. *Chemistry.*
FRANK VOGEL. *German.*
JOSEPH EUGENE WALKER. *Mathematics.*
WINTHROP WETHERBEE. *English Composition; German.*
BENJAMIN WHITNEY. *English Composition.*
HARRY JOHNSON WOOD. *History.*
JAMES HAUGHTON WOODS. *English Composition; Philosophy.*

SECOND-YEAR HONORS.

In Classics.

Sophomores:

IRVING BABBITT,	Highest Honors.
WILLIAM FREDERICK GIESE,	Highest Honors.
HENRY BURROWES LATHROP,	Highest Honors.
JAMES HARDY ROPES,	Highest Honors.

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Junior:

ROWLAND BLENNERHASSETT MAHANY, — Honors.

Sophomores:

HENRY LEWIS BAILEY, — Honors.
RICHARD CLARKE CABOT, — Honors.
GEORGE DAVIS CHASE, — Honors.
JOSEPH LINCOLN GOODALE, — Honors.
FRED EMORY HAYNES, — Honors.
GEORGE LELAND HUNTER, — Honors.
CLIFFORD HERSCHEL MOORE, — Honors.
CHARLES WARREN, — Honors.

In Mathematics.

Sophomore:

LOUIS LEVERETT HOOPER, — Highest Honors.

Juniors:

ARTHUR PARK GAY, — Honors.
EDWARD HAMILTON KIDDER, — Honors.

Sophomore:

WALTER COX GREEN, — Honors.

In Physics:

Junior:

MAXIME BÔCHER, — Highest Honors

Sophomore:

LOUIS LEVERETT HOOPER, — Honors.

HOLDERS OF FELLOWSHIPS AND SCHOLARSHIPS.

(Appointed in 1887.)

THE GRADUATE DEPARTMENT.

Harris Fellowship.

WILLIAM FOGG OSGOOD.

Rogers Fellowships.

GEORGE RICE CARPENTER. EDMUND NATHANIEL SNYDER.

Parker Fellowships.

MELLEN WOODMAN HASKELL. JULIAN WILLIAM MACK.
HENRY THEODORE HILDRETH. ARTHUR GORDON WEBSTER.

John Thornton Kirkland Fellowship.

LEWIS EDWARDS GATES.

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James Walker Fellowship.

GEORGE SANTAYANA.

John Tyndall Scholarship.

HUGH HENRY BROGAN.

Morgan Fellowships.

JAMES NESBITT ANDERSON.
JOSEPH LYBRAND MARKLEY.
ALLEN BEARDEN PHILPUTT.
THEODORE WILLIAM RICHARDS.
WALLACE CLEMENT SABINE.
WILLIAM ALBERT SETCHELL.

College Scholarships.

Shattuck.

EDGAR BUCKINGHAM.
BYRON SATTERLEE HURLBUT.
MARK ANTONY DE WOLFE HOWE, JR.
GEORG RICHARD RODEMANN.
FRANK HAMILTON UNDERWOOD.

Townsend.

AUGUST FREDERIC FOERSTE.
HERMAN WADSWORTH HALEY.
ALFRED HENRY LLOYD.
FRANK WALTER NICOLSON.
JOSEPH BROWN THOMAS TUTHILL.

Thayer.

JOSIAH BRIDGE.
CHARLES FRANCIS ADAMS CURRIER.
JOHN HENRY GRAY.
EDWARD CLARK LUNT.
DANIEL WILLIAM SHEA.
FRANK LOUIS VAN CLEEF.
CHARLES WILLIAM WOODWORTH.

THE COLLEGE.

Class of 1887.

	Name of Scholarship.
CHARLES SPROULL THOMPSON,	Price Greenleaf.
GEORGE POPE FURBER,	Palfrey Ex. and Price Greenleaf.
JOHN HENRY GRAY,	Price Greenleaf.
JOSEPH HALL PEARL,	Price Greenleaf.
ALBERT THOMPSON PERKINS,	Price Greenleaf.
EDGAR JUDSON RICH,	Price Greenleaf.
FRANK WALTER NICOLSON,	Price Greenleaf.
WILLIAM JACKSON BOWEN,	Price Greenleaf.
LOUIS HICKS,	Price Greenleaf
CHARLES SEWARD PROCTOR,	Price Greenleaf.
CHARLES FRANCIS ADAMS CURRIER,	Bowditch.
LOUIS FISKE HYDE,	Bowditch.
JOSEPH EUGENE WALKER,	Bowditch.
CLARENCE ARTHUR BRODEUR,	Bowditch.
OTIS BRIGGS OAKMAN,	Bowditch.
WILLARD BEAN HOWE,	Sewall.
WALTER RAYMOND SPALDING,	Matthews.

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Edgar Buckingham,	Shattuck.
Frank Edge Kavanagh,	Sever.
Franklin Elmer Ellsworth Hamilton,	Class of 1814.
Robert Treadwell Osgood,	Pennoyer.
Linn Luce,	Pennoyer.
Timothy Currier Craig,	Walcott.
Myron Augustus Lochman,	Walcott.
Frank Chester Southworth,	Pennoyer.
John Jerome Cotter,	Pennoyer.
Harry Ernest Peabody,	Bassett.
Morton Davis Mitchell,	Class of 1817.

Class of 1888

John William Henry Walden,	Thayer.
James Alderson Bailey,	Matthews.
William Goodrich Thompson,	Matthews.
Frank Beverly Williams,	Price Greenleaf.
Richard Clark Manning,	Price Greenleaf.
Carl Adolf Ewald,	Price Greenleaf.
Edward Avery Harriman,	Price Greenleaf.
Charles Tildon Sempers,	Price Greenleaf.
Ernest Bernard Chenoweth,	Matthews.
Alexander Beckwith Marks,	Matthews.
Philip Melancthon Hammett,	W. S. Eliot.
Edward Campbell Mason,	Bowditch.
Edward Wyllys Taylor,	Bowditch.
Francis Demetrius Kalopathakés,	Bowditch.
Edward Hamilton Kidder,	Levina Hoar.
Howard Beers Gibson,	Gorham Thomas.
Samuel Foster McCleary,	Class of 1841.
Wilfred Bolster,	Shattuck.
Charles Worcester Clark,	Shattuck.
Clarence Willard Gleason,	Shattuck.
Wendell Phillips Elkins,	Shattuck.
William Augustine Leahy,	Walcott.

Class of 1889.

Max Winkler,	Thayer.
Clarence Alfred Bunker,	Toppan.
Frederick Boyden Jacobs,	Matthews.
Clifford Herschel Moore,	Matthews.
George Andrew Reisner, Jr.,	Matthews.
Elmer Ellsworth Shoemaker,	Matthews.
William Homer Warren,	Matthews.

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Sumner Rankin Albee,	Bowditch.
William Freeman Burdett,	Bowditch.
Stillman Roberts Dunham,	Bowditch.
William Frederick Giese,	Bowditch.
Frederick Green,	Bowditch.
Fred Emory Haynes,	Bowditch.
Henry Newell Herman,	Bowditch.
George Leland Hunter,	Bowditch.
Henry Burrowes Lathrop,	Bowditch.
William Asa Lefavour,	Bowditch.
Frederick Winthrop Faxon,	Sewall.
William Forrest Pillsbury,	Shattuck.
Louis Leverett Hooper,	Kirkland.
Charles Bates Dunlap,	Pennoyer.
William Burdelle Bentley,	Bassett.
Perley William Graham,	Pennoyer.

Class of 1890.

Assigned in January.

Thomas Henry Buttimer,	Bright.
Theodore Chamberlin,	Bright.
Louis Henry Dow,	Bright.
Arthur Winfred Hodgman,	Bigelow.
Henry Taylor Parker,	Bigelow.
Samuel Foster Swinburne,	Bowditch.
George Philip Wardner,	Bowditch.
Francis Augustus Foxcroft,	Matthews.

Assigned in October.

George Philip Wardner,	Thayer.
John Henry Boynton,	Matthews.
Louis Henry Dow,	Cudworth.
Ralph Hoffmann,	Matthews.
Arthur Winfred Hodgman,	Cudworth.
Henry Taylor Parker,	Matthews.
Harry Tyler Perry,	Price Greenleaf.
Francis Augustus Foxcroft,	Matthews.
Richard Herbert Arms,	Bowditch.
Herbert Bates,	Bowditch.
Harry Edwin Burton,	Bowditch.
Thomas Henry Buttimer,	Bowditch.
Charles Mayo Eaton,	Bowditch.
Arthur Ashley Hubbard,	Bowditch.
Samuel Foster Swinburne,	Bowditch.

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David Clarence Torrey,	Bowditch.
Elmer Lincoln Cummings,	Bowditch.
Frank Stanley Stebbins,	Hollis.
John Joseph Tobin,	Lowell.
Harry Rust Merrill,	Shattuck.
Oliver Brewster Roberts,	Shattuck.
Addison Center Burnham,	Shattuck.
Maurice Whittemore Mather,	Pennoyer.
Harry Fox Hewes,	Bassett.
Joseph Edward Rourke,	Pennoyer.

THE LAWRENCE SCIENTIFIC SCHOOL.

George James Peirce,	University.
Collier Cobb,	University.
Ralph Stockman Tarr,	University.
Edward Lincoln Atkinson,	Normal School.
Fred Washington Atkinson,	Normal School.
James McCormick,	Normal School.
Winfield Scott Nickerson,	Normal School.
Charles Peter Sinnott,	Normal School.

THE MEDICAL SCHOOL.

George Arthur Craigin,	Barringer.
Ferdinand Augustus Steward,	Barringer.
Arthur Howard Wentworth,	Medical School.
Stephen Andrew Mahoney,	Medical School.

THE DIVINITY SCHOOL.

(Appointments for 1886–87.)

Williams Fellowship.

Henry Arthur Whitman.

Edward Hopkins's Students of Divinity.

Edward Ernest Atkinson.	Augustus Mendon Lord.
William Wallace Fenn.	Frederic Morse Smith.
Leon Addison Harvey.	Edward Strieby Steele.

Scholarships.

Merle St. Croix Wright,	Cary.
Lewis Jurey Huff,	Jackson and Kendall.
William Henry Ramsay,	Jackson.
Ernest Charles Smith,	Jackson.
Samuel Green Davis,	Chapman.

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AWARDS OF PRIZES. 1886–87.

Bowdoin Prizes.

I.

To MARLAND COGSWELL HOBBS, A.B. 1885, *of the Law School, a prize of $100 for a dissertation on* "The Twelfth Article of Jay's Treaty."

II.

To CHARLES FRANCIS ADAMS CURRIER, *of the Senior Class, a prize of $75 for a dissertation on* "The Treatment of the American Loyalists during and after the Revolutionary War."

In Classes III. and IV. no prizes were awarded.

JUDGES.

On Literary, Philosophical, and Historical subjects: JOHN T. MORSE, Jr., Dr. CHANNING, and THOMAS S. PERRY, Esq.

On Classical subjects: Professor ALLEN, Asst. Professor DYER, and Professor T. D. SEYMOUR, of Yale University.

On Scientific subjects: Asst. Professor DAVIS, and Professor ALPHEUS HYATT, of the Massachusetts Institute of Technology.

Chauncey Wright Prize.

Not awarded in 1886–87.

Dante Prize.

To HEINRICH CONRAD BIERWIRTH, A.B. 1884, *a prize of $50 for an essay on* "Dante's obligations to the Schoolmen, especially to Thomas Aquinas."

JUDGES: — Asst. Professor DYER, T. W. HIGGINSON, Esq., and Rev. T. C. PEASE.

Sargent Prize.

Not awarded in 1886–87.

Boylston Prizes.

First Prizes.

To HERMAN PAGE, *Junior*

To FRANCIS WALLACE KNOWLES, *Junior.*

Second Prizes.

To JOHN DANIEL BARRY, *Junior.*

To WILTON LINCOLN CURRIER, *Senior.*

To ROWLAND BLENNERHASSETT MAHANY, *Junior.*

JUDGES: — ROGER WOLCOTT, Esq., Hon. CHARLES R. CODMAN, Professors JAMES B. THAYER and JOHN W. WHITE, Rev. EDWARD H. HALL, Rev. WILLIAM LAWRENCE, and GEORGE PUTNAM, Esq.

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The Toppan Prize.

Not awarded in 1886–87.

The Sumner Prize.

To MARLAND COGSWELL HOBBS, A.B. 1885, of the Law School, *a prize of $100 for a dissertation on* "The Experience of the last half-century in the light it throws upon the possible general resort to Arbitration as a substitute for War."

JUDGES: — Professors NORTON and AMES, and Dr. SNOW.

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THE UNIVERSITY CHAPEL.

FRANCIS GREENWOOD PEABODY, D.D., *Plummer Professor of Christian Morals.*

EDWARD EVERETT HALE, D.D.
PHILLIPS BROOKS, D.D.
ALEXANDER McKENZIE, D.D.
GEORGE A. GORDON, A.B.
} *Preachers to the University.*

On May 10, 1886, a vote was passed by the President and Fellows "That five preachers to the University be annually appointed by the President and Fellows, with the concurrence of the Board of Overseers, who in conjunction with the Plummer Professor of Christian Morals shall arrange and conduct the religious services of the University." The Board of Overseers concurred in this vote on May 12, 1886.

On June 14, 1886, on the unanimous recommendation of the Preachers and the Plummer Professor, the President and Fellows voted "That the statute numbered 15, concerning religious services, be amended by striking out the clause 'at which the attendance of the students is required,'" and on June 16 the Board of Overseers concurred in this vote. Attendance at the religious services of the University was thus, by the advice of those who conduct these services, and to the satisfaction of all concerned in them, made wholly voluntary.

During the year 1886–87 the Plummer Professor and the Preachers to the University have directed these services as follows: Each has conducted daily morning prayers for about seven weeks, and each has preached on four Sunday evenings. Sixteen vesper services have been held on Thursday afternoons from November till May. The Preacher conducting morning prayers has been in attendance every morning during his term of duty at Wadsworth House 1, for the purpose of meeting students who wish to consult him.

Other services on Sunday evenings have been led by the following preachers by invitation of the Board: —

The Rev. President ROBINSON, of Brown University; Rev. ANDREW P. PEABODY, D.D., of Cambridge; Mr. DWIGHT L. MOODY, of Northfield; Right Rev. F. D. HUNTINGTON, D.D., Bishop of Central New York; Rev. NEWMAN SMYTH, D.D., of New Haven, Conn; Rev. GEORGE H. GREER, D.D., of Providence, R. I.; Rev. WASHINGTON GLADDEN, D.D.,

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of Columbus, Ohio; Rev. CHARLES H. PARKHURST, D.D., of New York, N. Y.; Rev. PHILIP S. MOXOM, of Boston; Rev. GEORGE Z. GRAY, D.D., of Cambridge; Rev. BROOKE HERFORD, of Boston; Rev. MINOT J. SAVAGE, of Boston; Rev. WILLIAM S. RAINSFORD, of New York, N. Y.

The Board of Preachers will be glad to have their attention called to any cases of special need where they may be useful, or to any better methods of serving the moral and religious interests of the University. General correspondence should be addressed to the Plummer Professor, though any Preacher will gladly consider such questions as may be more appropriately addressed to him.

In addition to the opportunities for worship in Appleton Chapel, seats are provided for students, at the expense of the College, in the churches of the different denominations in Cambridge. St. John's Memorial Chapel of the Episcopal Theological School having been erected for the especial accommodation of Harvard students is free to them, and Professor LAWRENCE of the School is glad to enter into pastoral relations with any that may desire it.

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THE UNIVERSITY LIBRARY.

COUNCIL.

CHARLES W. ELIOT, *President.*
HENRY W. TORREY, *Professor of Ancient and Modern History, Emeritus.*
WOLCOTT GIBBS, *Professor of Physics, Emeritus.*
FRANCIS J. CHILD, *Professor of English.*
CHARLES ELIOT NORTON, *Professor of the History of Art.*
JUSTIN WINSOR, *Librarian of the University.*
CRAWFORD H. TOY, *Professor of Hebrew.*
GEORGE L. GOODALE, *Professor of Botany.*

COLLEGE LIBRARY.

JUSTIN WINSOR, *Librarian.*
THOMAS J. KIERNAN, *Superintendent of Circulation.*
WILLIAM C. LANE, *Head of Catalogue Department.*
WILLIAM H. TILLINGHAST, *Head of Ordering Department.*
JOHN H. STORER, *Curator of Coins.*

DEPARTMENTAL LIBRARIES.

The care of the several libraries devolves upon some member of the faculties of the respective departments, when regular librarians have not been appointed.

WINFIELD S. CHAPLIN, *Professor, and Dean of the Lawrence Scientific School.*
FRANCIS H. STORER, *Professor, and Dean of the Bussey Institution.*
EDWARD C. PICKERING, *Professor, and Director of the Astronomical Observatory.*
SERENO WATSON, *Curator of the Herbarium, Botanic Garden.*
FREDERICK W. PUTNAM, *Professor, and Curator of the Peabody Museum.*
JOHN H. ARNOLD, *Librarian of the Law School.*
GEORGE A. ARNOLD, *Assistant in the Law School Library.*
DUREN J. H WARD, *Librarian of the Divinity School.*
FRANCES M. SLACK, *Librarian of the Zoölogical Museum.*

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The College Library in Gore Hall is for the use of the whole University. All students who have given bonds may take out books, three volumes at a time, and may keep them four weeks. Books, reserved at the instance of officers of instruction, as collateral reading for their courses, are shelved in separate alcoves, with tables for consultation, and can be taken out only near the close of library hours, and must be returned upon the reopening of the Library. Students who leave Cambridge for an absence of more than one week must first return all borrowed books.

The College Library is open every week-day, except Thanksgiving day, Christmas day, New Year's day, Fast day, Memorial day, and the Fourth of July, from 9 A.M. till 5 P.M., or till sunset when that is before 5; but in vacation or recess the hour of closing is 2 P.M. On Sundays during term time the Library is open, for readers only, after 1 o'clock P.M.

The College Library may be consulted by all persons, whether connected with the University or not. The privilege of borrowing books is also granted, under special regulations, to persons not connected with the University. *Blanks for making applications for such use may be had of the Librarian.*

Persons entitled to use the College Library can have access to the departmental libraries, for consultation, by applying to the Superintendent of circulation at Gore Hall; but such libraries are primarily for the special use of the schools and departments, and are placed in the buildings belonging to such schools and departments. An express-box passes regularly between the College Library and the Bussey Institution.

The several libraries now contain about the following numbers of bound volumes: —

Gore Hall	248,600
Lawrence Scientific School	3,300
Bussey Institution (Jamaica Plain)	2,900
Phillips Library (Observatory)	3,600
Botanic Garden (Herbarium Library)	5,200
Law School	23,000
Divinity School	17,850
Medical School (Boston)	1,500
Museum of Comparative Zoölogy	18,800*
Peabody Museum	950
	325,700

The collection of pamphlets and maps in the College Library is very large, and is estimated to be equal in number to the collection of bound

* This does not include the Whitney Collection of Geology and Geography, not yet numerated.

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volumes. The departmental libraries have also considerable numbers of pamphlet monographs on subjects connected with their specialties; and these are not included in the count of volumes. The College Library has also a collection of coins.

The catalogue of the Gore Hall Collection, including pamphlets, is on cards, accessible to the public, and consists of two parts, the one arranged by authors, the other by subjects. Printed strips of titles added to all the libraries are issued two or three times a week; and they are posted in Gore Hall and in the departmental libraries. Three or four times during the academic year, they are gathered in the BULLETIN OF THE UNIVERSITY, and issued with notes on the authorities in different departments of knowledge. From such supplements, another series of publications is made up, as "Bibliographical Contributions," which are in course of publication. More extensive bibliographical works constitute another series, "Special Publications," of which Scudder's "Catalogue of Scientific Serials" (1633–1876, 8vo, pp. 370) makes No. 1, published in 1879. There has also been issued a Catalogue of the Gray Collection of Engravings (4to, 1869); but this collection has, for the present, been transferred from the Library to the Museum of Fine Arts in Boston.

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THE CHEMICAL LABORATORY.

OFFICERS.

JOSIAH P. COOKE, LL.D., *Director.*
C. LORING JACKSON, A.M., *Professor.*
HENRY B. HILL, A.M., *Professor.*
OLIVER W. HUNTINGTON, PH.D., *Instructor.*
ARTHUR M. COMEY, PH.D., *Assistant.*
LOUIS L. JACKSON, A.B., *Assistant.*
GEORGE R. WHITE, A.M., *Assistant.*

The Chemical Laboratory occupies the whole of Boylston Hall, which was erected in 1857 with a fund bequeathed for the purpose by the late WARD NICHOLAS BOYLSTON, and subsequently largely increased by subscription. The hall was enlarged by the addition of a third story in 1870.

Besides several private laboratories and preparation rooms, the building contains five large laboratories for students. A room on the upper story with one hundred desks is especially devoted to qualitative and descriptive work. On the lower story a laboratory with twenty-four places is wholly reserved for quantitative work, and connected with it is a weighing room and library, a furnace room, and a room of nearly constant temperature for gas analysis and thermo-chemistry. On the same story is a laboratory for organic work with twelve places, and with contiguous rooms for organic analysis, distillations, and similar processes. In addition, there is a a laboratory for advanced students; and a laboratory with sixty-four places for the most elementary class has been recently fitted up. On the second story is a Mineralogical Laboratory, with a collection of minerals especially selected and arranged for the use of students. Each of these laboratories is under the charge of a competent assistant.

In addition, Boylston Hall contains the large and valuable Mineralogical Collection of the University, which is open to the public on week-days from 9 to 5 o'clock, and also an extensive collection of chemical preparations and apparatus. All the courses of instruction in Chemistry to the Graduates and Undergraduates of Harvard College, and to the students of the Lawrence Scientific School (see pp. 116, 117), are given in the Laboratory. The Laboratory is also open to Special Students who desire to follow, under the instruction of the Director and his associates, any line of chemical investigation. The facilities for chemical research are unusually great.

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JEFFERSON PHYSICAL LABORATORY.

JOSEPH LOVERING, LL.D., *Director.*
JOHN TROWBRIDGE, S.D., *Professor.*
EDWIN H. HALL, PH.D., *Instructor.*
BENJAMIN O. PEIRCE, PH.D., *Assistant Professor.*
HAROLD WHITING, PH.D., *Instructor.*

In 1881 Mr. T. JEFFERSON COOLIDGE gave $115,000 to the College for a new physical laboratory, on condition that $75,000 should be raised by subscription and the income appropriated to its support. The building was finished in Oct., 1884, and is called the Jefferson Physical Laboratory. All the instruction in Physics, by recitations, lectures, and experimental work, to undergraduates, graduates, members of the Lawrence Scientific School, and special students is given in this building, which accommodates the various physical cabinets. The building is four stories high, if the basement is included. In the eastern wing the whole height is divided between a large lecture-room below, and the great laboratory above. In the central and western portions of the building are three recitation-rooms for sections of forty or less; but the principal part of the central and western portions is broken up into a large number of small rooms, where the professors, assistants, and advanced students can pursue their separate investigations, and be secured against intrusion, or any disturbance of their instruments. In the basement and first story, stone tables, each supported by its own column of masonry, and without contact with the floors, furnish firm support for these instruments. In the centre of the western wing a large rectangular tower stands on an independent foundation, and is isolated from the surrounding rooms. It is designed for investigations which demand extraordinary stability, or a great height: as in Foucault's pendulum-experiment. Small openings have been left in the brick partitions which divide the length of the building, by means of which a long path is available for such experiments as that on the velocity of light. In the western wing, iron nails and pipes which would disturb delicate experiments in magnetism, have been carefully excluded. In the bottom of the tower, a small underground room has been excavated for experiments which require a constant temperature.

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THE HEMENWAY GYMNASIUM.

DUDLEY ALLEN SARGENT, A.B., M.D., *Director, and Assistant Professor of Physical Training.*
JAMES GRAY LATHROP, *Assistant in Physical Training.*
LEWIS HURLBUTT BETTS, *Recorder.*

The new gymnasium, named in honor of AUGUSTUS HEMENWAY of Boston, who gave it to the University, is a handsome and spacious structure, built and equipped with the utmost thoroughness. It is furnished with the best patterns of ordinary gymnastic apparatus, and with many new appliances designed to develop the different parts of the body, and so constructed that they can be adjusted to the strength of the strong or to the weakness of the weak.

The bathing arrangements are complete, and the dressing accommodations ample.

Facilities for recreative exercise have been provided in the Bowling-Alleys and Ball-Court, and in the Rowing, Fencing, and Sparring Rooms.

The Gymnasium is open to all students of the University on week days from 11 A.M. until 1 P.M., and from 3 until 5.30, and from 8 until 10 P.M., except on Saturdays, when it is closed at 6 o'clock.

The attendance is voluntary, and the system adopted is one designed to meet the special wants of each individual. Realizing the great diversity in age, size, and strength, as well as in health, of the students who attend the University, the Director makes no attempt to group them into classes which pursue the same course of exercises.

Upon entering the University, each student is entitled to an examination by the Director, in which his physical proportions are measured, his strength tested, his heart and lungs examined, and information is solicited concerning his general health and inherited tendencies. From the data thus procured, a special order of appropriate exercises is made out for each student, with specifications of the movements and apparatus which he may best use. After working on this prescription for three or six months, the student is entitled to another examination, by which the results of his work are ascertained, and the Director enabled to make a further prescription for his individual case.

A course of informal lectures is given by the Director, in which the theories and principles of physical training are practically illustrated.

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THE ASTRONOMICAL OBSERVATORY.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*
EDWARD C. PICKERING, A.M., S.B., *Paine Professor of Practical Astronomy, and Director.*
ARTHUR SEARLE, A.M., *Assistant Professor of Astronomy.*
OLIVER CLINTON WENDELL, A.M., *Assistant.*
J. RAYNER EDMANDS, S.B., *Assistant.*
JOHN RITCHIE, Jr., *Assistant.*
WILLIAM H. PICKERING, S.B., *Assistant.*

This Observatory was founded for the purpose of scientific research in all departments of Astronomy. To fulfil this purpose, it has been equipped with instruments of the first class and with a library of about 5,000 works (including pamphlets), principally relating to astronomical subjects. It has likewise been provided with funds for the maintenance and increase of its equipment and library, and for the payment of its current expenses, special provision having also been made for the publication of its observations.

Any one properly qualified to pursue the study of practical astronomy may be admitted to the Observatory as a student. Such students will be permitted to take part in the observations and other work carried on at the time in the Observatory, as well as to make use of the Observatory library. They will also receive from the officers of the Observatory such assistance in the study of any branch of astronomy as can be rendered without interference with current work.

In order to study profitably at the Observatory, the student should already possess such a degree of astronomical knowledge as is implied in a thorough acquaintance with Herschel's "Outlines of Astronomy," or any equivalent work. He should also have a sufficient knowledge of mathematics readily to comprehend the mathematical expressions in works like Chauvenet's "Spherical and Practical Astronomy," or the "Theoria Motus Corporum Coelestium" of Gauss. Ability to read the German language, though not indispensable, is very desirable.

Application for admission may be made to the Director, with whom the fees for instruction may be agreed upon. In special cases, a part or the whole of the fees may be remitted in consideration of services rendered in computation.

The *Time Service* of the Observatory — Mr. J. R. Edmands in charge — furnishes a large part of New England with time signals.

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THE MUSEUM OF COMPARATIVE ZOÖLOGY

AND

LABORATORIES OF NATURAL HISTORY.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*
ALEXANDER AGASSIZ, LL.D., *Curator.*
JOSIAH D. WHITNEY, LL.D., *Secretary.*
GEORGE L. GOODALE, A.M., M.D.
HENRY P. BOWDITCH, A.M., M.D.

OFFICERS.

ALEXANDER AGASSIZ, LL.D., *Curator.*
JOSIAH D. WHITNEY, LL.D., *Sturgis Hooper Professor of Geology.*
HERMANN A. HAGEN, M.D., S.D., *Professor of Entomology.*
NATHANIEL S. SHALER, S.D., *Professor of Palæontology.*
WILLIAM G. FARLOW, A.M., M.D., *Professor of Cryptogamic Botany.*
EDWARD L. MARK, PH.D., *Hersey Professor of Anatomy.*
WILLIAM M. DAVIS, S.B., M.E., *Assistant Professor of Physical Geography.*
J. ELIOT WOLFF, A.B., *Instructor in Petrography.*
HOWARD AYERS, PH.D., *Instructor in Zoölogy.*
WALTER FAXON, A.B., S.D., *Assistant in Zoölogy.*
D. D. SLADE, M.D., *Assistant in Osteology.*
ALPHEUS HYATT, S.B., *Assistant in Palæontology.*
SAMUEL GARMAN, *Assistant in Herpetology and Ichthyology.*
J. WALTER FEWKES, PH.D., *Assistant in charge of Invertebrates and of the Newport Marine Laboratory.*
WILLIAM BREWSTER, *Assistant in Ornithology.*
FRANCES M. SL[redacted] *Librarian.*

The Museum is under the management of a Faculty, who nominate the Curator, the Sturgis Hooper Professor, and appoint the Assistants.

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The Curator is charged with the direction of the scientific and educational interests of the Museum, as well as of its relations to the public. The Natural History collections of Harvard College, with the exception of the Herbarium and the Mineralogical collections, are placed in the Museum building.

The collections, so far as arranged, are open to visitors every weekday, from 9 A.M. till 5 P.M., and, between May 1 and November 1, on Sunday, from 1 P.M. till 5 P.M.

The Exhibition Rooms open to the public are the Synoptic Room, the rooms containing the systematic collections of Mammals, Birds, Reptiles, Fishes, Mollusks, Crustacea and Insects, and Radiates, Sponges and Protozoa, also the rooms devoted to the faunal collections of Europe, of North and South America, the Indo-Asiatic, the African, and the Australian Realms. Entrance on the south side.

The publications of the Museum consist of an annual Report and of an octavo Bulletin (vols. i.–xii.) and Memoirs in quarto (vols. i.–xiv.).

The Bulletin and Memoirs are devoted to the publication of original work by the professors and assistants of the Museum, of investigations carried on by students and others in the different laboratories of Natural History, and of work by specialists based upon the Museum collections.

The courses of instruction in Natural History numbered 1, 2, 4, 5, 6, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, and 24 (see pp. 118–120), are given in the building devoted to the Natural History Laboratories (entrance on Oxford Street), connected with that of the Museum, under the direction of Professors Whitney, Hagen, Shaler, Farlow, and Mark, Assistant Professor Davis, Mr. Wolff, and Dr. Ayers. The Instructors and Assistants of the Museum also receive special students in their respective departments.

The income of the Humboldt Fund (about $400) is applied, with the advice of the Faculty of the Museum, towards the maintenance of one or more persons engaged in study at the Museum.

Two tables of the Newport Marine Zoölogical Laboratory are reserved for advanced students. One of the tables of the U. S. Fish Commission at Wood's Holl is also at the disposal of the Director of the Museum.

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THE PEABODY MUSEUM

OF

AMERICAN ARCHAEOLOGY AND ETHNOLOGY.

OCTOBER 8, 1866.

TRUSTEES.

ROBERT CHARLES WINTHROP, LL.D., *Chairman.*
ASA GRAY, LL.D.
HENRY WHEATLAND, A.M., M.D., *Secretary.*
THEODORE LYMAN, A.B., S.B.
GEORGE FRISBIE HOAR, LL.D.
FRANCIS CABOT LOWELL, A.B., *Treasurer.*
FREDERICK WARD PUTNAM, A.M.

OFFICERS.

FREDERICK WARD PUTNAM, A.M., *Curator, and Peabody Professor of American Archaeology and Ethnology.*
LUCIEN CARR, A.M., *Assistant Curator.*

The first section of the building, 87 feet front on Divinity Avenue, and 44 feet deep, was erected in 1877. This section is one-fifth of the contemplated structure, and contains three rooms and two galleries on each side of a central hall. A room on the first floor and another on the upper are used for the Curator's office, library and work-rooms; the other rooms, all the galleries and the central hall are furnished with cases and contain the collections on exhibition. The Museum is in charge of the Curator and is open to the public, under proper restrictions, from 9 to 5 o'clock on week days. The arrangement of the Museum is intended to facilitate research and study. Facts are presented and theories avoided. The Curator receives special students in the several departments of the Museum.

The publications of the Museum consist of the Annual Reports which also contain special papers on American Archaeology and Ethnology. Twenty reports have been published.

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BOTANIC GARDEN AND HERBARIUM.

ASA GRAY, LL.D., *Fisher Professor of Natural History, and Director of the Herbarium.*
SERENO WATSON, PH.D., *Curator of the Herbarium.*
GEORGE L. GOODALE, M.D., *Professor of Botany, and Director of the Botanic Garden.*
WILLIAM G. FARLOW, M.D., *Professor of Cryptogamic Botany.*

The Botanic Garden occupies about seven acres of land at the corner of Linnaean and Garden Streets. About seven thousand species of flowering plants are cultivated for educational and scientific purposes. The grounds and greenhouses are open to the public daily.

To students properly qualified, specimens of living plants are freely furnished, and facilities are offered for prosecuting investigations. Under certain restrictions students are supplied with all necessary appliances for conducting experiments in vegetable physiology.

The Herbarium of the University, now numbering about two hundred thousand specimens, is contained in a building at the Botanic Garden. To graduate students properly prepared, it is open for consultation under the direction of the Curator.

The Botanical Library, containing eight thousand volumes and pamphlets, is in an adjoining room, and is accessible for consultation to all advanced students of Botany.

The extensive Herbarium of Cryptogamic Botany is contained in the Museum on Oxford Street.

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THE ARNOLD ARBORETUM.

CHARLES S. SARGENT, *Arnold Professor of Arboriculture, Director.*
CHARLES E. FAXON, *Assistant, in charge of Herbarium and Museum.*
JACKSON DAWSON, *Superintendent.*

The Arnold Arboretum was founded for the purpose of scientific research and experiment in Arboriculture, Forestry, and Dendrology, and as a Museum of trees and shrubs suited to the climate of Massachusetts. The Arboretum occupies a portion of the Bussey farm in West Roxbury, 160 acres in extent, and under a special arrangement with the City of Boston, is open to the public every day in the year from sunrise to sunset. The living collections are supplemented by an Herbarium, Museum, and Library. These occupy temporarily the "Dwight House," at the corner of Warren and Cottage Streets in Brookline, until a suitable Library and Museum building can be erected on the Arboretum grounds.

Any one properly qualified to pursue the study of practical arboriculture or forestry may be admitted to the Arboretum as a student. Such students will be permitted to take part in the work carried on in the Arboretum as well as to make use of its Library. They will also receive from the officers of the Arboretum such assistance and advice in the study of any branch of Arboriculture or Dendrology as can be rendered without interference with current work. In order to study with advantage in the Arboretum, the student should already possess such a degree of botanical knowledge as is implied in a thorough acquaintance with "Gray's Botanical Text Book," or any equivalent work. He must have some knowledge of horticultural methods and practice, and should be familiar with the native trees at least of the New England States.

Application for admission may be made to the Director, with whom the fees for instruction may be agreed upon. Fees may be remitted in consideration of services performed.

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SUMMER COURSES OF INSTRUCTION.

COURSES IN CHEMISTRY.

In 1887 the chemical laboratories in Boylston Hall were open from July 11 to August 20 inclusive, and courses of instruction in General Chemistry, Qualitative Analysis, Quantitative Analysis, and Organic Chemistry were given by Dr. Comey, with the assistance of Messrs. White and Morrison.

General Chemistry.

This course is especially adapted for beginners and consists of a series of experiments, performed in the laboratory by the student himself, under the supervision of the instructor. The experiments are supplemented by experimental lectures, twice a week, upon theoretical and descriptive chemistry.

Both experiments and lectures are designed to illustrate the general laws and doctrines of chemical science, and the object sought is to lead the student not only to observe the fundamental facts of chemistry, but also to grasp the connection between facts and underlying principles. By this method it is hoped to supply the special discipline of chemical studies; and the course is therefore especially recommended to teachers who are preparing to teach chemistry in secondary schools. It has been the practice, if there is time remaining after the student has finished the regular course of experiments, to begin basic qualitative analysis.

STUDENTS.

Denny, John H., A.B. (*Princeton Coll.*), *Medical Student*,	Baltimore, Md.
Drake, Harry B., *Student, Harvard College*,	Cambridge.
Dunn, Albert H., A.B. (*Bates Coll.*), *Principal, Alfred High School*,	Alfred, Me.
Dunton, John R., A.B. (*Bates Coll.*), *Principal, Leominster High School*,	Searsmont, Me.
Flanagan, Elizabeth M., *Student, Bridgewater Normal School*,	Cambridge.
Hall, Frederic B., A.B., *Teacher, Berkeley School, Boston*,	Somerville.
Ham, Judson B., A.B. (*Bates Coll.*), *Teacher of Science, Linden Institute*,	Linden, Vt.

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Jenkins, Ira A., A.B. (*Bates Coll.*), *Principal, Vinal Haven* (*Me.*) *High School*,	Monroe, Me.
Osgood, Robert T., A.B., *Teacher*,	Cambridge.
Parks, Susan B., *Medical Student*,	Pearl Creek, N.Y.
Penick, John M., A.B. (*Princeton Coll.*), *Teacher of Nat. Science and Classics, Baird College*,	Clinton, Mo.
Shadie, Gertrude E., *Medical Student*,	Rockland, Me.
Spaulding, Frank B., A.B. (*Dartmouth Coll.*), *Principal, Winthrop High School*,	Winthrop.
Stevens, Charles E., A.B. (*Bates Coll.*), *Teacher of Science, Lewiston High School*,	Lewiston, Me.
Woodman, Francis C., *Student, Harvard College*,	Jamaica Plain.

Qualitative Analysis.

In this course the student, having first observed the characteristic reactions of the most important basic and acid radicals, has practice in deducing methods of analysis based upon his own observations; after which simple and mixed salts, minerals, alloys, etc., are analyzed. Those who devote eight hours or more a day to faithful work in the laboratory accomplish the equivalent of the corresponding college elective course.

STUDENTS.

Adams, Enoch C., A.M. (*Bates Coll.*), *Principal, High and Putnam Schools*,	Newburyport.
Ames, John L., A.B., *Medical Student*,	Jefferson, Me.
Beals, William, Jr., *Student, Harvard College*,	Boston.
Bôcher, Maxime, *Student, Harvard College*,	Cambridge.
Chapman, Mary, *Student, Mass. Inst. of Technology*,	Boston.
Cogswell, Geo. P., *Student, Harvard College*,	Cambridge.
Dudley, James W., A.B., *Medical Student*,	Warsaw, N.Y.
Edson, Carroll E., *Student, Harvard College*,	Roxbury
Fales, Frank L., *Student, Harvard College*,	Milford.
Fales, Willard L., *Student, Harvard College*,	Milford.
Freeman, Ella M., A.B. (*Vassar Coll.*), *Assistant Professor of Chemistry, Vassar College*,	W. Milbury, Mass.
Galloway, David H., PH.G. (*Chicago Coll. of Pharm.*) *Instructor, Chicago Coll. of Pharmacy*,	Chicago, Ill.
Graves, William B., A.M. (*Amherst Coll.*), *Professor of Nat. Science, Phillips Academy*,	Andover.
Gray, Albion D., A.M. (*Bowdoin Coll.*), *Teacher of Science, Springfield High School*,	Springfield.
Grote, C. A., A.M. (*Southern Univ.*), *Professor of Chemistry, Southern University*,	Greensboro', Ala.

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Henshaw, George B., *Student, Harvard College,*	Cambridge.
Hosmer, Ernest H., *Student, Harvard Divinity School,*	Cambridge.
Iden, Thomas, M., PH.M. (*Butler Univ.*), *Instructor in Chemistry, Butler University,*	Irvington, Ind.
Jones, William R., *Dental Student,*	Northampton.
Lund, Fred. B., *Student, Harvard College,*	Cambridge.
Manning, Priestley H., *Teacher of Nat. Sciences, Montgomery Bell Academy,*	Nashville, Tenn.
Norton, Rupert, *Student, Harvard College,*	Cambridge.
Power, Milford S., A.B., *Teacher of Physics and Chemistry, Chauncy Hall School, Boston,*	So. Boston.
Rippetoe, James J., *Instructor in Physical Science, Campbell University,*	Holton, Kan.
Thompson, Edward P., A.M. (*Monmouth Coll. Ill.*), *Professor of Mathematics, Geneva College,*	Beaver Falls, Pa.
West, Agnes D., *Teacher, Lawrence St. School,*	Hartford, Conn.
White, Joseph H., *Student, Somerville High School,*	Somerville.
Winn, Jane F., *Teacher of Natural Science, Chillicothe High School,*	Chillicothe, O.
Wright, Jonathan B., A.B. (*Wilmington Coll.*), *Professor of Natural Science, Wilmington College,*	Wilmington, O.

QUANTITATIVE ANALYSIS.

This course is intended to give a training in the general methods and principles of Quantitative Analysis, both gravimetric and volumetric; by more advanced students the analysis of drinking waters, fertilizers, furnace products, etc., may be undertaken. By devoting eight hours a day to laboratory work, the student may gain sufficient knowledge of this branch of chemistry to enable him to perform ordinary analyses without the help of a teacher. Special analyses will be given to advanced students.

STUDENTS.

Bancroft, Wilder D., *Student, Harvard College,*	Milton.
Bristol, Chas. L., B.S. (*New York Univ.*), *Teacher of Science, Riverview Academy,*	Poughkeepsie, N. Y.
Chaffee, Arthur B., A.M. (*Princeton Coll.*), *Professor of Chemistry and Physics, Franklin University,*	Franklin, Ind.
Chapman, Mary, *Student, Mass. Inst. of Technology,*	Boston.
Deck, James J., *Student, Woodstock College,*	Woodstock, Md.
Heavens, Francis J., A.M. (*Amherst Coll.*), *Principal of High School,*	Brookfield.
Herman, Henry N., *Student, Harvard College,*	Roxbury.

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Meeks, Edwin J., A.B., *Medical Student*,	Cambridge.
Pulsford, Henry A., *Student, Harvard College*,	So. Orange, N.Y.
Sullivan, Maurice D., *Student, Woodstock College*,	Woodstock, Md.
Sully, James M., *Student, Mass. Inst. of Technology*,	Cambridge.

ORGANIC CHEMISTRY.

This course consists entirely of work in the organic laboratory, embracing organic analysis and the different methods peculiar to this branch of the science. The laboratory will be open for students having a previous knowledge of the subject, and opportunity will be given for conducting original research.

During the summer of 1887 three of the students in this course carried on original researches. Mr. SMITH worked on the silicotetrafluorides of organic bases, Mr. HOLMAN on the composition of the essential oil of sweet fern (Comptonia asplenifolia), and Mr. KAHNWEILER on compounds of benzol disulphonic acid. Mr. SMITH published a paper on his work in the "American Chemical Journal."

STUDENTS.

Brawley, Margaret C., *Assistant in Chemistry, Girls' High School, Boston*,	Roxbury.
Holman, George M., M.D. (*Hahneman Med. Coll. Philad.*), *Teacher of Phonography, Bryant and Stratton's Commercial College*,	Boston.
Jennings, Walter L., *Student, Harvard College*,	Cambridge.
Kahnweiler, Charles F., *Student, Harvard College*,	New York, N.Y.
Shimomura, Kotaro, *Student, Worcester Free Inst. of Industr. Science*,	Kiyoto, Japan.
Smith, Mary H., *Instructor in Chemistry, Pennsylvania College*,	Pittsburgh, Pa.
Smith, F. Warren, A.M., *Student, Mass. Inst. of Technology*,	Dorchester.

The courses during the summer of 1888 will be under the direction of Dr. COMEY, and will open July 9 and close August 18. Instruction will be given in General Chemistry, Qualitative Analysis, Quantitative Analysis, and Organic Chemistry.

A course comprising the work required in preparing for the admission examination in Chemistry for the Freshman Class at Harvard College, and based upon Prof. Cooke's pamphlet, will also be given in the summer of 1888. This course offers to teachers in preparatory schools an opportunity to acquire a practical knowledge of the methods designed to be used in this pamphlet. The attention of students wishing to pass the entrance examinations in Chemistry is also called to this course.

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The fee for the courses is $25, payable on entering. An additional charge of $5 is made for material consumed by the students. In addition to this, all apparatus actually broken by the student is charged to his account. This charge has averaged from $1 to $4, according to the course taken and the care used by the student. To cover this a deposit of $10 is required on entering, and whatever balance remains will be returned when the student closes his account.

The summer classes are offered the same facilities for laboratory work as are open to students during the academic year, and furnish to those interested in the science of chemistry, whether students or teachers, an opportunity to gain a practical knowledge of that science in its various branches. The courses are open to women. The College Library may be freely used by the students in these courses.

It is desirable that applications for places in the laboratory should be made as early as possible. For this purpose or for further information address Dr. ARTHUR M. COMEY, Harvard Chemical Laboratory, Cambridge, Mass.

COURSES IN PHYSICS.

A course in Experimental Physics, substantially equivalent to Course *B* in this department as given in College, will probably be given in the summer of 1888, if as many as twenty-five applications shall have been made for it before June 1st. Application for this course should be made to Dr. EDWIN H. HALL, 5 Avon St., Cambridge.

A course substantially equivalent to Course *C* will probably be given in the summer of 1888, if as many as twenty applications shall have been made for it before June 1st. Application for this course should be made to Dr. HAROLD WHITING, Jefferson Physical Laboratory, Cambridge.

COURSE IN BOTANY.

A course of practical instruction in Botany was given by Professor GOODALE and Mr. J. E. HUMPHREY, during the month of July, 1887. The following persons were in attendance on the course.

STUDENTS.

Abbot, Edward Stanley, A.B., *Medical Student*,	Cambridge,
Andrews, Ethan A., *Teacher*,	Baltimore, Md.
Atwell, Charles B., *Instructor in Northwestern University*,	Evanston, Ill.
Crandall, A. R., *Teacher of Natural History, Agricultural and Mechanical College of Kentucky*,	Lexington, Ky.
Cushing, Florence M.,	Belmont.
Fuller, Emma A.,	Cambridge.

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Goodale, Joseph L., *Student*,	Cambridge.
Hart, Susan J., *Teacher*,	Jackson, Mich.
Hubbard, Geo. C., *Principal 1st Dist., Madison, Ind.*,	Madison, Ind.
James, Joseph F., *Professor of Botany and Geology, Miami University*,	Oxford, Ohio.
Marrett, Helen M., *Teacher*,	Milwaukee, Wis.
Morgan, T. H., *Post-graduate Student at Johns Hopkins University*	Lexington, Ky.
Mulford, Isabel, *Teacher of Botany, Vassar College*,	Poughkeepsie, N.Y.
Purinton, Geo. D., *Teacher*,	Fayetteville, Ark.
Sargent, Mrs. D. A.,	Cambridge.
Thomson, Harvey, *Professor of Natural Science*,	Hastings, Nebr.
Woodman, Caroline A., *Teacher*,	Lewiston, Me.

A similar course in practical Botany, designed specially for teachers, is offered for the summer of 1888. The course will consist of lectures and laboratory practice, under the direction of Professor GOODALE and the Assistant in Botany, Mr. W. F. GANONG. The course will begin on Monday, July 2, and end on July 31. For further particulars, communications may be addressed to Mr. W. F. GANONG, Harvard College, Cambridge, Mass.

COURSE IN GEOLOGY.

In 1887 a course of instruction in Geology was given by the five officers of instruction in that department. The work was begun in Cambridge and continued in Southern Connecticut, the Catskills, and in the district near North Adams.

STUDENTS.

*Bumpus, Hermon C., *Professor of Natural History, Olivet College*,	Olivet, Mich.
*Colson, James M., *Teacher*,	Petersburg, Va.
Field, Herbert H., *Student, Harvard College*,	Brooklyn, L. I.
*Forsyth, Walter G., *Student, Harvard College*,	Weymouth.
Griswold, Leon S., *Student, Harvard College*,	Dorchester.
Hedrick, John T., *Professor of Mathematics, Woodstock College*,	Woodstock, Md.
Morey, James T., *Teacher, Perkins Institution for the Blind*,	South Boston.
O'Sullivan, Denis T., *Professor of Physics, College of St. Francis Xavier*,	New York, N. Y.
Quinby, George T., *Student, Harvard College*,	New York, N. Y.
Ropes, James H., *Student, Harvard College*,	Andover.
Stone, James S., *Student, Harvard College*,	Newton.

* Present during only a portion of the course.

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Wadsworth, William S., *Student, Harvard College*, Worcester.
Wallis, Charles W., *Teacher of Natural Science, Campbell Normal University*, Holton, Kansas.
Webster, Edgar H., *Teacher, Pepperell High School*, Pepperell.

The next term will begin on July 5, 1888, at Cambridge, Mass., and will continue six weeks. For information address Mr. T. W. HARRIS, 40 Divinity Hall, Cambridge, Mass.

COURSE IN PHYSICAL TRAINING.

A practical course in Physical Training, designed especially for teachers, was given at the Hemenway Gymnasium in the summer of 1887, beginning July 6 and lasting five weeks.

The aim of the course is to qualify men and women as instructors in the Harvard system of physical examination and training. The present need is for intelligent organizers and teachers rather than for skilful performers — for those who can arouse enthusiasm for health and bodily development rather than for gymnastic feats.

The course consists of lectures by Dr. Sargent, examinations and exercises condensed from the winter course, and a new system of exercises adapted to the needs of school children.

Certificates are given indicating the time spent at the school, the work done, and the nature of the service that each teacher is capable of rendering.

A preliminary course of reading is prescribed for those who have entered their names for the course.

STUDENTS.

Adams, Charles Everett, A.M. (*Bowdoin Coll.*), *Instructor in Physical Training, Colby University*, Waterville, Me.
Bell, James Franklin, LIEUT. U.S.A. (*U.S. Military Acad.*), *Professor of Military Science and Tactics, Southern Illinois Normal University*, Carbondale, Ill.
Bell, Mrs. Sally Buford, Carbondale, Ill.
Bissell, Mrs. Mary Taylor, A.B. (*Vassar Coll.*), M.D. (*Woman's Med. Coll. of N. Y. Infirmary*), *Director, School of Physical Culture*, New York, N. Y.
Bond, Sara Adams, *Teacher, Emerson School*, East Boston.
Bovée, Belle, *Teacher of Gymnastics, Brearley School*, New York, N.Y.
Bridgman, Anna Julia, *Director of Gymnasium, Rockford Seminary*, Rockford, Ill.
Carlisle, Ellor Eliza, *Teacher of Gymnastics, Conn. Normal School*, New Britain, Conn.

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Cartwright, Emma Lucretia, *Teacher, Conn. Normal School*,	New Britain, Conn.
Clark, Frederic, *Teacher of Pianoforte*,	Cambridge.
Crenshaw, John Bascom, A.M. (*Randolph-Macon Coll.*), *Professor of Physical Culture, Randolph-Macon College*,	Ashland, Va.
Dodge, Fred Herbert, A.B. (*Yale Univ.*),	Somerville.
Dudley, Albertus True, A.B., *Director of Gymnasium, Phillips Exeter Academy*,	Exeter, N. H.
Durgin, Ella Gertrude, *Teacher of Elocution*,	Dover, N. H.
Eddy, Ruth Elizabeth,	Cincinnati, Ohio.
Findlay, William, *Private Gymnasium*,	Philadelphia, Pa.
Foster, Alice Bertha, *Director of Gymnasium, Women's Educational and Industrial Union*,	Buffalo, N. Y.
Fuller, Harriet Wheeler, *Teacher of Gymnastics, Howard Collegiate Institute, W. Bridgewater*,	Cambridge.
Gilley, Frank Milton, A.B., *Teacher of Science, Chelsea High School*,	Chelsea.
Hall, Alice Tripp, A.B. (*Wellesley Coll.*), M.D. (*Woman's Med. Coll. of Penn.*), *Physician*,	Amherst.
Hanna, Delphine, *Director, Ladies' Gymnasium, Oberlin College*,	Oberlin, Ohio.
Hare, George Andrew, M.D. (*Univ. of Mich.*), *Director of Gymnasium, Medical and Surgical Sanitarium*,	Battle Creek, Mich.
Hart, Helen Gertrude, *Teacher of Elocution, Woodstock College, McMaster University*,	Woodstock, Ont.
Henay, Fannie A., *Assistant, Sanatory Gymnasium, Cambridge*,	Boston.
Houghton, Bessie Marie, *Teacher of Dramatic Action and Gymnastics, New Eng. Conserv. of Music*,	Boston.
Hunter, Aaron Burtis, A.B. (*Amherst Coll.*), *Teacher, Wolfe Hall*,	Denver, Col.
Ingraham, Lena Vaughn, M.D. (*Woman's Med. Coll. of Penn.*), *Physician*,	Boston.
Johnson, Helen M., *Teacher, Public School*,	Malden.
Knight, Delia, *Iowa State Normal School*,	Cedar Falls, Iowa.
Ladd, Carolyn C., *Director of Gymnasium, Bryn Mawr College*,	Bryn Mawr, Pa.
Lang, Thomas, Jr.,	Malden.
Linhart, Christopher P., M.D. (*Western Reserve Med. Coll.*), *Teacher in Physical Culture, Newark Academy*,	Newark, N. J.

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Lyons, Caroline M., *Teacher in Physical Training, New Eng. Conserv. of Music.* Boston.

McDaniel, William Roberts, A.M. (*Western Md. Coll.*), *Professor of Mathematics, Western Maryland College,* Westminster, Md.

Mirick, Lillian Ellen, Cambridge.

Murphy, Mary J., *Instructor in Physical Training, Swarthmore College,* Philadelphia, Pa.

Nevens, Henry Beecher, A.M. (*Bates Coll.*), *Principal of High School,* Bridgton, Me.

O'Connor, Annie Theresa, *Assistant, Sanatory Gymnasium,* Cambridge.

Oxford, Orriette Hutchins, Cambridge.

Pratt, Mara L., Malden.

Putnam, Helen C., A.B. (*Vassar Coll.*), *Teacher of Gymnastics, Vassar College,* Poughkeepsie, N.Y.

Richardson, Mrs. Annie Gove, East Boston.

Rose, Laura Lincoln, *Professor of Elocution, Mt. Holyoke Seminary, South Hadley,* and *Lake Erie Seminary, Painesville, O.,* Newtown, Pa.

Sage, Mary Lydia, *Instructor in Physical Training, Women's Guild of New Century Club,* Philadelphia, Pa.

Seymour, Isabelle, *Teacher in Physical Training, Ogontz School for Young Ladies,* Ogontz, Pa.

Spencer, Martha Priscilla, *Teacher of Elocution and Literature, Kansas State Normal School,* Emporia, Kan.

Stackhouse, Susan Palmer, M.D. (*Woman's Med. Coll. of Penn.*), *Demonstrator of Surgery, Woman's Med. Coll. of Penn.* Philadelphia, Pa.

Thurston, Ada, A.B. (*Vassar Coll.*), *Teacher of Gymnastics, Packer Collegiate Institute,* Brooklyn, N. Y.

Traut, Amelia Earle, *Teacher, Grammar School,* Buffalo, N. Y.

Walker, Gertrude, A.B. (*Smith Coll.*), *Teacher in Physical Culture, Smith College,* Northampton.

Washington, Booker Tolifero, *Principal, Tuskegee Normal School,* Tuskegee, Ala.

Weeks, Laura Field, *Teacher of Gymnastics, Friends' School,* Providence, R. I.

White, Herbert Judson, *Instructor in Physical Training, Racine College,* Racine, Wis.

Whittier, Frank Nathaniel, A.B. (*Bowdoin Coll.*), *Director of Gymnasium, Bowdoin College,* Brunswick, Me.

Wilkinson, Jasper Newton, *Training Teacher, Kansas State Normal School,* Emporia, Kan.

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Wilson, Martha Durant, *Private Gymnasium*, *Melrose*, Boston.
Wolcott, Grace, M.D. (*Woman's Med. Coll. of Penn.*), *Physician*, Boston.

A similar course will be given at the Hemenway Gymnasium in the summer of 1888, beginning Thursday, July 5, and ending Wednesday, August 8.

Fee for the course, $50.00, payable in advance to ALLEN DANFORTH, Bursar, Cambridge, Mass.

For further particulars address D. A. SARGENT, M.D., Director, Hemenway Gymnasium, Cambridge, Mass.

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EXAMINATIONS FOR WOMEN.

The fifteenth examination for women by Harvard University will be held in Cambridge, New York, Philadelphia, and Cincinnati, on Thursday, Friday, and Saturday, June 28, 29, and 30, 1888.

Candidates who present themselves at this examination will be examined upon the subjects required for admission to Harvard College.* The time and method of examination and the papers used will be the same as for the examination for admission to College.

A certificate will be given to any candidate who in any year passes satisfactorily the examinations on any studies in the list (on which she has not previously passed) which occupy in the aggregate not less than *five hours* on the examination programme.† If the candidate fail to pass on studies occupying five hours, she will receive no certificate, and no account will be made of the examination.

A candidate who passes the examinations in accordance with the terms prescribed for admission to the Freshman Class of Harvard College, will receive a special certificate, bearing the signature of the President of the University. A candidate for this certificate may pass the whole examination at one time; or she may pass a part of it (not less than five hours) in one year, and take the remainder in some subsequent year. The examination cannot be divided into more than two parts; but a candidate who has failed in a small number of studies may be allowed another examination in these for the purpose of making up her deficiency.

The certificate given to a candidate who passes upon all the subjects required for admission to the College entitles her to admission to the courses of instruction given in Cambridge by instructors in Harvard University, under the direction of the Society for the Collegiate Instruction of Women. It is also accepted, if presented within a year of its date, by Wellesley, Smith, and Vassar Colleges as the equivalent for examinations in such subjects, whether preparatory or collegiate, as are covered by it.

The Society for the Collegiate Instruction of Women will take charge of the examinations in Cambridge. Local committees will have charge of the examinations in New York, Philadelphia, and Cincinnati.

*See p. 75. †See p. 81.

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Notice of intention to take the examinations must be sent to the local secretary on or before May 1, 1888; and exact notice of the place and hour of examination will be sent to every candidate on June 1, 1888. Candidates will be informed of the results of their examinations by the local secretaries about July 15.

The fee for the examination is, for the first year, *ten dollars;* for each subsequent year, *five dollars.*

Board and lodging will be provided at a moderate cost for those who need such accommodation, and young women in narrow circumstances will be aided in meeting the cost of these examinations. Applicants for aid should address one of the secretaries named below, stating their circumstances fully, the amount of help which they need, the kind of assistance which they would prefer, — whether a remission of fees, a loan, or gratuitous board and lodging during the examination, — and enclosing certificates of scholarship and character from their teachers. If an applicant is under twenty-one years of age, her application must be accompanied by the written approval of her parent or guardian.

School Committees and Superintendents seeking well-educated teachers will be supplied with a list of those successful candidates who propose to devote themselves to the profession of teaching.

Specimen examination-papers, and a pamphlet containing a statement of requirements, will be forwarded to any address.

Any further information which may be desired will be gladly furnished by the

SECRETARY OF THE SOCIETY FOR THE COLLEGIATE INSTRUCTION OF WOMEN, *5 Waterhouse Street, Cambridge, Mass.*

SECRETARY OF THE NEW YORK LOCAL COMMITTEE, *21 West Twelfth Street, New York, N. Y.*

SECRETARY OF THE PHILADELPHIA LOCAL COMMITTEE, *2001 Pine Street, Philadelphia, Pa.*

SECRETARY OF THE CINCINNATI LOCAL COMMITTEE, *166 West Seventh Street, Cincinnati, Ohio.*

In 1887, certificates of having completed the examinations were granted to, —

Elizabeth Atlee,	*Philadelphia, Pa.*
Harriet Frazier Head,	*Germantown, Pa.*

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COMMITTEES APPOINTED BY THE BOARD OF OVERSEERS.

To visit the College: —

On Government. — Moorfield Storey, Andrew P. Peabody, Leverett Saltonstall, J. R. Lowell, Richard M. Hodges, John T. Morse, jr., Edwin P. Seaver, Samuel Hoar, Alexander McKenzie, Le Baron Russell, Francis C. Lowell, John Noble, John D. Washburn.

On Languages. — Solomon Lincoln, Robert D. Smith, Henry C. Lodge, William J. Rolfe, Francis A. Waterhouse, Henry W. Haynes, Thomas Cushing, William T. Harris, William Everett, Russell Gray, Thomas S. Perry.

On Rhetoric and English Literature. — J. R. Lowell, John T Morse, jr., Roger Wolcott, George B. Chase, Henry W. Foote, Josiah Quincy, jr., William Warren, Brooks Adams.

On History and Political Science. — John T. Morse, jr., Henry C. Lodge, John Fiske, Henry W. Putnam, Brooks Adams, John D. Washburn, William P. Atkinson, Edward G. Porter, Abbott Lawrence, Samuel Eliot.

On Philosophy. — Andrew P. Peabody, John Fiske, Alexander McKenzie, G. A. Gordon, D. N. Beach, R. S. Morrison, Howard Stockton.

On Mathematics, Physics, and Chemistry. — Edwin P. Seaver, William Watson, J. D. Runkle, E. D. Leavitt, jr., Oliver F. Wadsworth, Robert Amory, Daniel B. Hagar, George V. Leverett, Channing Whitaker, Francis Blake, jr., Walter C. Cabot, George R. Briggs.

On Natural History. — Henry P. Walcott, Theodore Lyman, Francis M. Weld, R. Pumpelly, Alpheus Packard, William H. Niles.

On Fine Arts and Music. — Leverett Saltonstall, John O. Sargent, S. L. Thorndike, William F. Apthorp, Charles A. Cummings, W. P. P. Longfellow, John S. Dwight, Charles G. Loring, Arthur Rotch, Frederick Crowninshield, Stanton Blake.

To visit the Divinity School. — James F. Clarke, Phillips Brooks, Andrew P. Peabody, E. E. Hale, Edward H. Hall, Lysander Dickerman, Francis B. Hornbrooke, Franklin Johnson, Henry W. Foote, Thomas Hill, F. W. Holland, Alexander McKenzie, Artemas B. Muzzey, Waldo Higginson, Charles F. Dole, Arthur Brooks, Brooke Herford, Endicott Peabody.

To visit the Law School. — William G. Russell, Robert D. Smith, Solomon Lincoln, Robert M. Morse, jr., George O. Shattuck, Roger Wol-

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cott, Henry W. Putnam, Samuel Hoar, Darwin E. Ware, Charles C. Beaman, jr., Francis V. Balch, Richard Olney, Oliver W. Holmes, jr.

To visit the Scientific School, the Bussey Institution, the Peabody Museum of American Archaeology and Ethnology, and the Museum of Comparative Zoölogy. — Francis M. Weld, R. M. Hodges, John O. Sargent, Charlemagne Tower, Alphonse Fteley, Ernest W. Bowditch, Thomas C. Clark, Abbott Lawrence, T. J. Coolidge, Clemens Herschel.

To visit the Medical, Dental, and Veterinary Schools. — Richard M. Hodges, Francis M. Weld, Samuel A. Green, Henry P. Walcott, Morrill Wyman, John C. Dalton, Hall Curtis, Le Baron Russell, Alfred Hosmer, George C. Shattuck, Samuel L. Abbott, Algernon Coolidge, Frederic Winsor, John A. Gordon.

To visit the Observatory. — James F. Clarke, Charles R. Codman, Theodore Lyman, George O. Shattuck, Benjamin A. Gould, George I. Alden, Robert C. Winthrop, Augustus Lowell, Simon Newcomb, John C. Palfrey, Robert T. Paine, T. J. Coolidge, Charles F. Choate, Frederick O. Prince, F. H. Peabody.

To visit the Library. — John O. Sargent, Phillips Brooks, John Fiske, Samuel A. Green, Charles F. Adams, jr., Francis C. Lowell, Charles A. Cutter, Charles Deane, Charles C. Smith, Stephen Salisbury, Mellen Chamberlain, Samuel S. Green, John M. Brown, William W. Greenough, George W. Wales, Henry G. Denny, Henry F. Jenks, Robert Grant, G. E. Littlefield.

To visit the Botanic Garden and Herbarium. — Henry Lee, H. H. Hunnewell, Francis A. Osborne, Henry P. Walcott, Frederick L. Ames, John Cummings, Augustus Lowell, George G. Kennedy, J. Warren Merrill, Benjamin P. Cheney.

On Treasurer's Accounts. — T. J. Coolidge, Roger Wolcott, Henry C. Lodge, Charles H. Parker, George B. Chase, Israel M. Spelman.

On Elections. — Leverett Saltonstall, Moorfield Storey, William G. Russell, George O. Shattuck, Samuel Hoar.

On Reports and Resolutions. — Robert D. Smith, Solomon Lincoln, Charles Francis Adams, Robert M. Morse, jr., Henry Lee, Charlemagne Tower, Henry W. Putnam.

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GENERAL SUMMARY.

Government, Teachers and other Officers.

President and Fellows		7
Overseers		32
Teachers: —		
Professors	64	
Assistant Professors	23	
Lecturers	3	
Tutors	3	
Instructors	61	
Demonstrators, Laboratory Assistants, and Assistants in English	27	
Whole number of Teachers		181
Preachers		4
Curators and Library Officers		10
Proctors and other Officers		33

Students.

College: —		
Senior Class	237	
Junior Class	214	
Sophomore Class	251	
Freshman Class	295	
Special Students	141	
		1138
Divinity School: —		
Resident Graduates	3	
Senior Class	3	
Middle Class	2	
Junior Class	7	
Special Students	1	
		16

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Law School:—		
Resident Graduates	2	
Third-Year Students	30	
Second-Year Students	55	
First-Year Students	89	
Special Students	39	
		215
Scientific School:—		
Fourth-Year Students	4	
Second-Year Students	1	
First-Year Students	1	
Special Students	14	
		20
Medical School:—		
Resident Graduates	8	
Fourth Class	10	
Third Class	62	
Second Class	85	
First Class	98	
		263
Dental School:—		
Third-Year Students	11	
Second-Year Students	14	
First-Year Students	7	
		32
Bussey Institution		7
School of Veterinary Medicine:—		
Third Class	3	
Second Class	6	
First Class	15	
Special Students	2	
		26
Graduate Department:—		
Resident Students	83	
Non-Resident Students	13	
		96
Whole Number of Students		1813
Deduct for names inserted more than once		1
		1812
Summer Courses:—		
Chemistry	62	
Botany	17	
Geology	14	
Physical Training	57	
		150

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DIRECTORY

OF OFFICERS AND STUDENTS IN ALL DEPARTMENTS OF THE UNIVERSITY.

*** The italic letter following the name indicates to what department of the University the student belongs:—*B.*, Bussey Institution; *C.*, College; *Dn.*, Dental School; *Dv.*, Divinity School; *G.*, Graduate Department; *L.*, Law School; *M.*, Medical School; *S.*, Scientific School; *V.*, School of Veterinary Medicine. *A. O.* stands for Astronomical Observatory, *M. Z.* for the Museum of Comparative Zoology, and *P. M.* for the Peabody Museum.

The numbers 1, 2, 3, and 4, preceding these letters, indicate the Freshman, Sophomore, Junior, and Senior Classes respectively in College, or the first, second, third, and fourth years in the Schools. *s.* means special student.

Addresses followed by an asterisk (*) are in Boston; all others are in Cambridge, unless stated to be elsewhere. It will be noticed that the number *precedes* the name of a street, but *follows* the name of a building.

The addresses of Students in the Medical School are given in most cases; but mail matter may be sent to any Medical Student addressed Harvard Medical School, Boston.

For abbrevations, see p. 10.

Abbot, E. S., 1*M.* 6 Larch.
Abbot, E. V., 2*L.* S. 20.
Abbot, P. S., 2*C.* S. 26.
Abbott, B. R., *G.* 17 Story.
Abbott, H. P., 3*M.* 79 Dartmouth.*
Abbott, L. M., *sL.* C. 29.
Abbott, S., *G.* Wakefield.
Abbott, W., 4*C.* Hilton 10.
Adams, C. F., *Overseer,* Quincy.
Adams, C. F., 4*C.* Little's 2.
Adams, G. C., 2*L.* 17 Dunster.
Adams, J. C., *sL.* M. 53.
Adams, J. Q., *Fellow,* Quincy.
Adler, I. L., 2*C.* 16 Mellen.
Agassiz, A., *Fellow,* and *Curator of M. Z.* 36 Quincy.
Agassiz, M., *sS.* Hilton 39.
Ahearne, C. A., 2*M.* Lynn.
Akin, T. R., 2*C.* 404 Harvard.
Albee, S. R., 3*C.* 30 Essex.
Aldrich, H. G., 3*L.* 34 Wendell.
Aldrich, H. M., 2*C.* T. 67.
Aldrich, N. B., 2*M.* 375 Columbus Ave.*
Alexander, J. B., *sC.* H'ke 35.
Alexander, L. H., *sC.* 721 Cambridge.
Alexander, W., *Proctor* (also 1*L.*) Read's 24.
Alger, C. W., *sC.* Lawrence 1.
Allen, A. L., 3*L.* Arlington.
Allen, E. H., 2*M.* 13 Devonshire.*
Allen, F. D., *Prof.* 10 Humboldt.
Allen, G. L., 4*C.* H'ke 40.
Allen, S. W., 1*C.* Little's 25.
Allen, W. H., 1*C.* H'ke 36.
Allen, W. S., 4*C.* Read's 32.
Allison, B. M., 3*C.* 366 Harvard.
Allison, E. E., *sC.* 762 Main.
Ames, J. B., *Prof.* 11 Frisbie Pl.
Ames, J. L., 1*M.* 20 St. James Ave.*
Amory, A., 1*C.* 8 Holyoke.
Amory, C., 4*C.* Little's 28.
Amory W., 1*C.* M. 19.
Anderson, C. P., 1*L.* 746 Cambridge.
Anderson, J. N., *G.* 26 Mellen.
Anderson, L., 4*C.* Beck 5.
Anderson, O. M., 3*C.* M. 25.
Andrews, E. B., 2*M.* Harv. Med. Sch.
Andrews, F. W., 2*C.* Little's 13.
Anthony, F. W., 3*M.* Bradford.
Appleton, J. W., 4*C.* Beck 42.
Arms, R. H., 2*C.* 2 Holmes Pl.
Arnold, F. A., 2*Dn.* Providence, R.I.
Arnold, G. A., *Asst. in Law Library,* 713 Cambridge.
Arnold, H. D., 3*M.* Newton.
Arnold, J. H., *Librarian of Law School,* 10 Frisbie Pl.
Ashe, G. M., 4*C.* 11 Appian Way.
Atkinson, E. L., *sS.* C. 43.
Atkinson, F. W., *sS.* C. 43.
Atkinson, R. W., 1*C.* 9 H'ke.
Atkinson, W., *sC.* T. 32.
Austin, J. W., 4*C.* G. 23.

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Austin, W., 1*L.* H'ke 18.
Austrian, A. S., *sC.* C. 48.
Avery, J. A., 1*C.*
24 Dartmouth St., Somerville.
Ayars, H. M., 2*L.* C. 65.
Ayer, C. C., 3*C.* T. 49.
Ayer, C. F., 1*L.* H'y 17.
Ayer, C. W., *G.* 6 Story.
Ayer, J. C., *sC.*
24 Monument Sq., Charlestown.
Ayer, R. G., 2*M.* 7 Newbury.*
Ayers, H., *Instr.* 23 Norfolk.
Babbitt, E. H., *G.* 124 Charles.*
Babbitt, F. C., 1*C.* C. 70.
Bacon, E. S., 2*M.* 165 W. Canton.*
Bacon, F. W., 2*C.* M. 23.
Bacon, W. F., 2*L.* 467 Broadway.
Bailey, E. A., *sC.* C. 32.
Bailey, F. H., *G.* 25 Mt. Auburn.
Bailey, H. L., 3*C.* 5 Elmer.
Bailey, J. A., 4*C.* S. 31.
Bailey, J. W., 1*L.* 16 Holyoke.
Bailey, S. A., 2*L.* 13 Bow.
Bailey, S. I., *G.*
38 Chester St., Somerville.
Bailey, T. J., 4*C.* Felton 34.
Baird, J. W., 1*M.* Harv. Med. Sch.
Baker, E. L., *sC.* Beck 46.
Baker, H. H., 1*C.* 30 Holyoke.
Baker, W., 1*L.* 61 Brattle.
Baker, W. H., *Asst. Prof.* 10 Beacon.*
Balch, F. G., 4*C.* M. 22.
Balch, J., 3*C.* M. 22.
Balch, T. W., 2*C.* 729 Cambridge.
Baldwin, A. C., 2*C.* H. 30.
Baldwin, C. H., 4*C.* T. 25.
Baldwin, E. F., *G.* Lawrence 37.
Baldwin, H. T., 1*C.* M. 43.
Baldwin, J. D. R., 1*C.* 5 Story.
Baldwin, R. S., 3*C.* 20 Prescott.
Baldwin, T. T., 2*L.* M. 43.
Ballou, H. M., *sC.* 13 Claremont Pk.*
Bancroft, G. A., 1*M.* So. Lancaster.
Bancroft, J., 3*L.* 380 Harvard.
Bancroft, W. D., 4*C.* T. 14.
Bangs, F. R., 1*C.* Little's 3.
Banks, H. H., 2*M.* Melrose.
Barber, H. B., 1*L.* H'y 12.
Barlow, R. S., 1*C.* 24 Holyoke.
Barnes, C. B., 2*C.* Little's 9.
Barnes, J. H., 1*C.*
111 Trenton St., E. Boston.
Barnes, W., 4*C.* Hilton 32.
Barney, G. L., 2*C.* W. 22.
Barr, J. C., 2*C.* Little's 10.
Barrell, W. L., 2*C.* 712 Cambridge.
Barret, A. G., 3*C.* M. 8.
Barron, A. N., 1*C.* W. 26.
Barron, T., 1*C.* H'ke 22.
Barry, J. D., 4*C.* H. 4.
Bartholow, P., 3*C.* 736 Cambridge.
Bartlett, G. A., *Asst. Prof.* Beck 27.
Bartlett, N. E., 4*C.* M. 21.
Bartlett, S. S., 2*L.* 291 Com'lth Ave.*
Bartley, C. E., *sC.* T. 24.
Bartol, J. W., 1*M.*
50 Monument Sq., Charlestown.
Bass, J. F., 1*C.* 47 Brattle.
Bassett, R. W. E., *sC.* C. 30.
Batchelder, C. C., 3*C.* H'y 21.
Bates, E. A., 2*M.* 193 W. Canton.*
Bates, E. C., 3*C.* Felton 15.
Bates, F. S., *sC.* H'ke 31.
Bates, H., 2*C.* 30 Shepard.
Bates, H. W., 1*C.* 15 Ware.
Bates, W. N., 2*C.* 56 Dana.
Bayer, E. M., 2*C.* 739 Cambridge.
Bayer, S. A., *sC.* 739 Cambridge.
Beal, G. R., 1*C.* Waltham.
Beale, S., 3*C.* C. 2.
Beals, W., 4*C.* H'y 23.
Bean, C. H., 1*C.* 36 North Ave.
Bean, C. L., 2*C.* H. 27.
Bean, H. W., 1*L.* H. 27.
Beaumont, W. S., 1*M.* Jamaica Plain.
Beckett, E. C., *Supt. of Vet. Hosp.* 50 Village.*
Beckwith, A. E., *sC.* D. 32.
Beecher, T. S., 2*C.* Read's 2.
Beer, W. E., 1*C.* 739 Cambridge.
Belknap, C. F., 1*C.* 42 Mt. Auburn.
Bell, S. R., 1*C.* T. 16.
Bennett, C. K., *sC.* 17 Shepard.
Bennett, J. I., 4*C.* D. 19.
Benson, M. L., *sC.* 35 Elmer.
Bent, A. C., 3*C.* 12 Oxford.
Bent, F. H., 3*C.* 12 Oxford.
Bentley, W. B., 3*C.* D. 1.
Berry, E. S., 1*C.* 413 Broadway.
Betts, L. H., *Recorder at Gymnasium,* 24 Arrow.
Bigelow, E. A., 2*C.* T. 46.
Bigelow, H. J., *Prof. Em.* 52 Beacon.*
Bigelow, S. L., 1*C.* Little's 25.
Bigelow, W. R., 3*C.* H. 26.
Billier, W. B. de, 4*C.* Beck 47.

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Billings, C. T., *G.* C. 67.
Bingham, I. E., 3*C.* H. 11.
Bishop, H. R., 1*C.* Read's 30.
Bishop, J. C., 1*C.* Read's 30.
Bixby, H. O., 2*Dn.* 564 Broadway, So. Boston.
Black, G. H., 3*C.*. M. 26.
Black, M. A., 2*C.* T. 4.
Black, M. L., *sC.* C. 48.
Black, O. F., 1*C.* 10 Avon.
Blagden, G., 2*C.* Little's 12.
Blake, C. J., *Clin. Instructor*, 226 Marlborough.*
Blake, H. G., 3*M.* Woburn.
Blake, J. B., 1*M.* 1330 Washington.*
Blanchard, J. A., 1*C.* Little's 30.
Blaney, C. C., 1*C.* W. 50.
Blaney, C. P., 2*C.* 12 Remington.
Bliss, W. J. A., 4*C.* W. 47.
Blodgett, E. E., 2*L.* 880 Main.
Blossom, E. L., 4*C.* T. 23.
Blum, M., 2*C.* G. 52.
Blunt, J. S., 2*C.* T. 28.
Boas, M. E., 3*C.* T. 47.
Bôcher, F., *Prof.* 12 Holyoke Pl.
Bôcher, M., 4*C.* 12 Holyoke Pl.
Bodley, E. B., 1*L.* 656 Cambridge.
Bohlen, C., 4*C.* Beck 42.
Bolles, F., *Secretary*, 6 Berkeley.
Bolster, P. G., 2*M.* 10 Cobden St., Roxbury.
Bolster, W., 4*C.* H. 10.
Bolton, C. J., 4*M.* Harv. Med. Sch.
Bolton, C. K., 2*C.* 378 Harvard.
Bond, G. G., 1*V.* Jamaica Plain.
Bonney, S. G., 2*M.* 136 Huntington Ave.*
Bosworth, F. C., 3*C.* Felton 10.
Bottum, F. H., 4*C.* 5 Avon.
Bourn, A. O., *sL.* C. 69.
Bouvé, A. G., *Instr.* 12 West.*
Bowditch, H. P., *Prof.* and *Dean of Med. Fac.* Jamaica Plain.
Bowen, F., *Prof.* 9 Follen.
Bowen, H., 2*M.* North Attleboro'.
Bowen, J. H., 4*C.* M. 5.
Bowen, J. T., *M.* Hotel Victoria.*
Bowen, W. J., 1*L.* H. 32.
Bowker, E. M., 1*M.* Brookline.
Bowman, B., 1*C.* 10 Remington.
Boyden, R. W., 3*L.* T. 10.
Boyden, W. C., 2*L.* T. 10.
Boynton, J. H., 2*C.* C. 66.
Brackett, C. A., *Prof.* Newport, R.I.
Brackett, E. G., *Asst.* 44 W. Cedar.*
Brackett, S. C., 1*C.* Shepherd 15.
Bradford, E. H., *Instr.* 149 Newbury.*
Bradlee, F. J., 4*C.* 25 Holyoke.
Bradlee, T. S., 1*C.* 9 Bow.
Bradley, J. D., 1*L.* 122 Commonwealth Ave.*
Bragdon, H. E., 1*M.* 145 Saratoga St., E. Boston.
Brainard, C. T., 3*C.* 44 Mt. Auburn.
Brandenstein, H. U., 2*C.* 24 Arrow.
Brastow, E. M., 1*V.* 50 Village.*
Brechbill, G. W., 1*L.* 646 Cambridge.
Bremner, S. K., 2*M.* 377 Colum'us Av.*
Brewer, G. H., 3*C.* H'ke 23.
Brewer, W. D., 2*L.* 38 North Ave.
Brewster, E. T., 2*C.* G. 15.
Brewster, G. W. W., 2*C.* M. 24.
Brewster, W., *Asst. in M. Z.* 61 Sparks.
Brice, W. B., 3*L.* 27 Irving.
Bridge, J., *G.* M. 40.
Briggs, C. H., *sL.* 359 Harvard.
Briggs, C. P., 3*Dn.* 433 Marlborough.*
Briggs, E. C., *Instr.* 1 Mt. Vernon.*
Briggs, L. R., *Asst. Prof.* 140 Brattle.
Brimmer, M., *Fellow*, 47 Beacon.*
Brock, G. A., 4*C.* D. 19.
Brogan, H. H., *G.* Berlin, Germ.
Bronson, I. H., 2*L.* 9 Lancaster.
Bronson, W. C., 1*Dv.* D. 3.
Brooks, A. H., 1*C.* 5 Ash St.
Brooks, E. G., 3*L.* 713 Cambridge.
Brooks, F. H., 1*C.* W. 15.
Brooks, F. M., 3*C.* H. 26.
Brooks, L., 1*C.* T. 37.
Brooks, P., *Preacher* and *Overseer*, 233 Clarendon.*
Brooks, W. A., 1*M.* 1 Oxford Terrace.*
Brown, A. H., 2*M.* 143 Boylston.*
Brown, C. N., 1*C.* 44 Langdon.
Brown, F. M., 2*C.* M. 35.
Brown, F. W., 1*C.* W. 50.
Brown, H. F., 2*C.* S. 12.
Brown, K., 1*C.* 8 Berkeley.
Brown, P. K., 2*C.* G. 48.
Brown, R. D., 2*C.* M. 35.
Browne, C., 4*C.* W. 13.
Browne, T. Q., 4*C.* G. 9.
Bruce, H. G., 4*C.* 17 Story.
Brush, W. F., 4*C.* W. 41.

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Bruner, M. L., 4*C.* C. 63.
Bryant, E. G., 1*M.*
28 Highland St., Roxbury.
Bryant, W. S., 4*M* 292 Marlboro.*
Buck, W. D., 1*L.* 713 Cambridge.
Buckingham, E., *Proctor*, G. 43.
Buffum, C. W., *sC.* 17 Kirkland.
Bullard, G. C., 3*C.* 757 Main.
Bullard, T. L., *B.* 149 Beacon.*
Bullock, C. C., *sC.* 78 Mt. Auburn.
Bumpus, A. L., 1*C.* 65 Oxford.
Bunker, C. A., 3*C.* C. 21.
Burbank, J. C. B., 3*C.* 18 Appian W.
Burdett, C. H., 4*C.* T. 22.
Burdett, W. F., 3*C.* T. 67.
Burke, F. E., 1*C.* 16 Ashland.*
Burlingham, F. W., 1*C.* Little's 27.
Burnett, J. T., *sC.* 59 Brattle.
Burnham, A. C., 2*C.* 68 Inman.
Burns, E. L., 2*M.* Somerville.
Burr, A., 3*C.* M. 42.
Burr, A., 2*V.*
157 Chelsea St., E. Boston.
Burr, A. E., 1*C.* 780 Main.
Burr, C. R., 3*M.* 3 Brimmer.*
Burr, C. W., 2*C.* M. 39.
Burrage, E., 2*C.* M. 37.
Burrell, H. L., *Demonstr.*
200 Dartmouth.*
Burrough, T. T., 3*M.*
27 Cliff St., Roxbury.
Burrows, G. T., 3*C.* 16 Holyoke.
Burton, H. E., 2*C.* 373 Harvard.
Bush, R. W., 3*C.* M. 42.
Bussey, G. D., 1*C.*
1 Preston St., Somerville.
Bustillo, A., 1*M.* 352 Shawmut Ave.*
Butler, A. P., 4*C.* 65 Mt. Auburn.
Butler, J. E., 1*M.* Jamaica Plain.
Butterfield, E. S., *sC.* 25 Ellery.
Butters, G. P., 3*C.* M. 1.
Butters, W. H., 3*C.* M. 1.
Butterworth, J. F., 2*C.* 25 William.
Buttimer, T. H., 2*C.* S. 22.
Byerly, W. E., *Prof.* Hammond St.
Byron, J. T., 4*M.* 188 W. Brookline.*
Cabot, A. T., *Clin. Instr.*
3 Marlborough.*
Cabot, C. M., 4*C.* 896 Main.
Cabot, F., 1*V.* Brookline.
Cabot, F. P., 2*C.* G. 32.
Cabot, R. C., 3*C.* G. 10.
Calkins, L., 2*C.* C. 4.
Calkins, R., 2*C.* C. 4.
Campbell, F. A., 1*L.*
8 Mt. Vernon St., Dorchester.
Campbell, Jas. A., 3*L.* 2 Holmes Pl.
Campbell, Joseph A., *sL.*
8 Mt. Vernon St., Dorchester.
Campbell, P. H., 2*M.*
90 Second St., So. Boston.
Caner, H. K., 3*C.* G. 44.
Cannon, W. M., 1*C.*
1 Preston St., Somerville.
Capen, S. D., *sL.* 14 Oxford.
Carpenter, B., 4*S.* M. 44.
Carpenter, G. A., 4*C.* M. 44.
Carpenter, G. R., *G.* Berlin, Germ.
Carpenter, I. L., 2*M.* 89 Waltham.*
Carpenter, T. B., 2*M.* Saxonville.
Carr, L., *Asst. Curator of Peabody Museum*, 344 Beacon.*
Carrier, C. F., 1*L.* 10 Remington.
Carroll, F. E., 2*M.* 299 Boylston.*
Carroll, T. F., 4*M.* Watertown.
Carter, B. E., 2*C.* D. 33.
Carter, J. R., 1*L.* 64 Sparks.
Cary, R. J., 2*C.* W. 20.
Castle, H. N., 2*L.* 11 Sumner.
Chadbourne, A. P., 3*M.*
Brattle St. and Mercer Circ.
Chadwick, W. P., *sL.* Felton 31.
Chalfant, H., 1*C.* 9 Bow.
Chamberlain, A. H., 3*M.*
15 Harwich.*
Chamberlin, L. W., 2*C.* T. 12.
Chandler, T. H., *Prof.* and *Dean of Dn.* Hotel Bristol.*
Chanler, W. A., 1*C.* Beck 33.
Channing, E., *Instr.* 1 Brewster Pl.
Chaplin, W. S., *Prof.* and *Dean of Scient. School*, 16 Prescott.
Chapman, H. B., 1*L.* 27 Irving.
Chard, T. C., 3*C.* 11 Appian Way.
Chase, A. M., 1*C.* 29 Lancaster.
Chase, G. D., 3*C.* 4 Divinity Ave.
Chase, P., 4*C.* M. 38.
Chase, R. S., *sC.* Lawrence 6.
Chase, S., *B.* 284 Beacon.*
Chave, T. T., 1*C.* C. 46.
Cheever, D. W., *Prof.* 239 Boylst'n.*
Cheever, H. D., 4*C.* Beck 45.
Chenery, W. E., 1*M.* 65 Chandler.*
Cheney, B. P., 2*C.* Shepherd 3.
Cheney, F. E., *Instr.* 176 Charles.*
Cheney, P. H., 2*C.* M. 15.
Chenoweth, E. B., 4*C.* T. 22.
Chester, F. D., 1*C.* C. 8.

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CHILD, F. J., *Prof.* 67 Kirkland.
Child, F. S., *B.* 67 Kirkland.
Child, S. M., 1*L.* C. 6.
Chittenden, G. H., 1*C.* C. 8.
Chittenden, R. P., 4*C.* 17 Lowell.
Choate, C. C., 1*M.* Salem.
Choate, C. F., 4*C.* 20 Holyoke.
Churchill, A., 4*C.* W. 10.
Churchill, F. S., 2*M.* Milton.
Clagstone, P., *sC.* 721 Cambridge.
Clark, C. D., 2*M.* Haverhill.
Clark, C. W., 4*C.* C. 12.
Clark, D. H., 3*C.* M. 49.
Clark, F. H., 3*M.* 214 Beacon.*
Clark, H., 3*M.* 51 Laurel St., Somerville.
Clark, R. A., *sC.* T. 59.
Clark, R. J., *sC.* 48 Brattle.
Clark, W., 1*C.* M. 52.
Clark, W. D., 3*C.* W. 42.
Clark, W. T., 2*M.* 88 Windsor.
Clarke, H. M., 4*C.* H'ke 2.
CLARKE, J. F., *Overseer,* Woodside Ave., Jamaica Plain.
Clarke, M. B., 4*C.* Little's 1.
Clatur, A. A., 1*C.* 42 Mt. Auburn.
Clement, F. P., 4*C.* H'ke 24.
Clifford, N., 2*C.* Little's 11.
Clinch, W. C., 2*Dn.* Hotel Stratford.
Clyde, M. H., 4*C.* Hilton 7.
Clyde, T., 4*C.* Hilton 7.
CLYMER, W. B. S., *Instr.* Channing St.
Coatsworth, R. H., 2*C.* C. 59.
Cobb, C., *sS.* 53 Oxford.
Cobb, F. C., 2*C.* H'ke 47.
CODMAN, C. R., *Overseer,* 57 Marlborough.*
Codman, E. A., 1*C.* 60 Brattle.
Codman, F. L., 1*C.* 26 Holyoke.
Codman, H. S., *B.* Brookline.
Codman, J. S., 2*C.* 52 Brattle.
Codman, P., 3*C.* Manter 5.
Codman, S. R. H., 4*C.* 77 Mt. Auburn.
Cody, M. J., 1*C.* C. 70.
Coggeshall, F., 1*M.* Harv. Med. Sch.
Cogswell, C. F., 3*C.* G. 21.
Cogswell, C. N., 4*C.* H'ke 37.
Cogswell, G. P., 4*C.* H'ke 37.
Cohen, W. B., *sC.* 727 Cambridge.
COHN, A., *Asst. Prof.* 56 Buckingham.
COLE, F. N., *Lect.*
Cole, W. M., *sC.* C. 25.
Cole, W. R., 1*Dv.* D. 29.
Coley, W. B., 3*M.* 1 Oxford Terrace.*
Collins, O. W., *M.* Harv. Med. Sch.
COMEY, A. M., *Asst.* Harvard St., Somerville.
CONANT, E. L., *Instr.* (also 2*L.*) M. 40.
CONANT, W. M., *Asst.* 252 Newbury.*
Conger, K. B., 2*C.* 62 Brattle.
Cook, I., 2*C.* 7 Ware.
COOKE, J. P., *Prof.* 12 Ware.
COOKE, W. P., *Instr.* 100 Boylston.*
Coolidge, D. H., *B.* } 114 Common-
Coolidge, F. S., 1*M.* } wealth Ave.*
COOLIDGE, T. J., *Overseer,* 93 Beacon.*
Coombs, J. W., 2*C.* H'ke 48.
Copeland, C., 3*C.* 9 Plympton.
Copeland, H., 1*C.* T. 40.
Corbin, E. R., 1*C.* 467 Broadway.
Corning, H., 2*C.* G. 20.
Corning, H. W., 1*C.* 739 Cambridge.
Cotter, J. J., 1*L.* H. 6.
Cotton, F. J., 2*C.* T. 17.
Coues, F., 1*C.* 78 Mt. Auburn.
Coulson, W., *sC.* C. 9.
Courtney, J. W., 2*C.* 174 Cambridge.
Cowles, W. H., 3*L.* 14 Mellen.
Cox, B. F., 1*M.* 285 Beacon.*
Cox, E. O., 1*S.* C. 61.
Coyle, J. T. G., 1*C.* 42 Mt. Auburn.
Crafts, L. M., 2*M.* 52 Chandler.*
Craigin, G. A., 3*M.* 1 Cedar Park, Roxbury.
Cram, G. W., 4*C.* H. 10.
Crane, J., 1*C.* T. 33.
Crane, N., 1*C.* H'ke 34.
Crane, W. S., 2*C.* T. 33.
Craven, A. F., *sC.* 26 Wallace.
Crawford, W. R., 1*L.* 14 Oxford.
Crawley, J. T., 2*C.* 19 Winthrop.
Crehore, C. L., 2*C.* Beck 3.
Crocker, J. B., 3*C.* 9 Bow.
Crocker, K. F., 4*C.* H'ke 25.
Crocker, R. I., 2*C.* 9 Bow.
Crocker, W. T., *G.* Lawrence 32.
Crockett, E. A., 1*M.* West Newton.
Croly, H. D., *sC.* 65 Mt. Auburn.
Crooker, G. H., 1*M.* Harv. Med. Sch.
Crosby, S. V., 1*C.* 59 Brattle.
Crosby, W. G., 1*L.* 467 Broadway.
Crowl, H. B., 3*C.* Felton 10.
Crowninshield, B. B., 2*C.* } 102 Mt.
Crowninshield, F. B., 1*C.* } Auburn.
Cryder, W. W., 1*C.* 404 Harvard.

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Cummings, A. M., 1 *M.* W. 35.
Cummings, E., *Instr.* T. 29.
Cummings, E. L., 2 *C.* 65 Mt. Auburn.
Cummings, F. A., 1 *C.* 96 Prescott.
Cummings, H. I., 1 *C.* 13 Kirkland Pl.
Cummings, I. O., 1 *M.* Harv. Med. Sch.
Cummings, J., 1 *C.* G. 35.
Cumnock, A. J., 1 *C.* Read's 16.
Cuningham, A., 4 *C.* T. 30.
Curran, R. L., 3 *C.* G. 1.
Currier, C. F. A., *G.* S. 6.
Curry, C. E., 3 *C.* H'ke 42.
Curtis, B. F., 4 *C.* T. 18.
Curtis, F. G., 2 *C.* 52 Brattle.
Curtis, H. F., 1 *M.* 147 Warren Ave.*
Curtis, J. B., 1 *M.*
21 Fifth St., E. Cambridge.
Curtiss, F. H., 1 *C.* G. 46.
Cushing, G. D., 3 *L.* 10 Appian Way.
Cushing, H. G., 1 *C.* Little's 14.
Cushing, J. N., 1 *L.* W. 44.
Cushman, C. A., 1 *L.* 801 Main.
Cutler, E. G., *Clin. Instr.*
275 Clarendon.*
Cutler, G. W., 1 *M.* Waltham.
Cutting, F. P., 2 *C.* Felton 26.
Dabney, F. L., 1 *C.* 8 Appian Way.
Dadmun, G. E., 2 *C.* T. 52.
Dame, W. H., 1 *C.* H'ke 49.
Dana, F., 2 *L.* 10 Frisbie Pl.
Dana, F. B., 4 *C.* G. 47.
Dane, J., 4 *C.* Wadsworth 5.
Danforth, A., *Bursar*, Wadsw'th 7.
Daniels, W. P., 4 *C.* H'ke 26.
Darling, C. B., 1 *C.* C. 39.
Darling, E. A., 2 *C.* M. 14.
Darling, F. H., 3 *L.* 105 Lambert Ave.
Darling, H. H., 3 *C.* M. 14.
Darrah, R. E., 3 *M.* 118 Chandler.*
Davenport, C. A., 2 *C.* Watertown.
Davenport, C. B., 3 *C.* 8 Appian Way.
Davenport, F. H., *Asst.* 5 Park Sq.*
Davidge, W. D., 4 *C.* M. 45.
Davidson, T. D., 4 *C.* 20 Prescott.
Davies, L., 3 *C.* T. 62.
Davis, A. G., *Tr's Asst.* 50 State.*
Davis, B. G., 3 *L.* H. 29.
Davis, C., 4 *C.* H. 20.
Davis, F. C., *sC.* 326 Broadway.
Davis, H. A., 1 *C.* H. 29.
Davis, H. T., *sC.* 896 Main.
Davis, J. T., 3 *C.* M. 49.
Davis, R. H., 1 *C.* 153 Brattle.
Davis, W. M., *Asst. Prof.* 2 Bond.
Dawson, J., *Supt. of Arnold Arboretum*, Jamaica Plain.
Day, A. K., 2 *M.* 37 W. Newton.*
Day, F. L., 3 *M.* 79 Dartmouth.*
Deal, E. E., 2 *M.*
3 Terrace Pl., E. Boston.
Dean, D. S., 1 *C.* Felton 13.
Dean, F. L., 4 *C.* T. 9.
Dean, G. C., 1 *L.* Holbrook.
Deblois, G. L., 3 *C.* M. 20.
Delone, C. J., 1 *L.* S. 8.
DeLong, F. L., 2 *C.* W. 40.
Denison, J. P., 2 *C.* M. 50.
Denne, W., 1 *Dn.* 1 Oxford Terrace.*
Dennett, J., *sC.* 25 Ellery.
Denny, F. P., 1 *C.* H'ke 15.
DeNormandie, P. Y., 1 *C.* H'ke 15.
Derby, W. P., 1 *M.* 102 Charles.*
Detrick, C. R., 1 *C.* 25 Holyoke.
Dewart, F. H., *G.* 8½ South.
Dexter, P., 3 *C.* 404 Harvard.
Dexter, S., 2 *C.* (of Chicago) 9 Linden.
Dexter, S., 2 *C.* (of Boston) 48 Brattle.
Dickerman, F. E., 2 *L.*
85 Central St., Somerville.
Dickerman, G. H., 2 *C.* H. 30.
Dickinson, D. T., 4 *C.* 135 Wash'ton.
Dickson, B. H., 2 *C.* Beck 26.
Dodge, J. L., 1 *C.* M. 18.
Dodge, R. E., 2 *C.* Felton 27.
Dodge, R. E. N., 3 *C.* T. 61.
Doe, C. C., 2 *M.* 224 Com'lth Ave.*
Doe, P., 1 *C.* Felton 36.
Doherty, J. E., *sL.* 16 Kinnaird.
Dolan, W. J., 2 *L.* 2188 Washington.*
Donahue, H., 3 *M.* 83 Essex.*
Donnelly, C. T., 1 *C.* 18 Prescott.
Dow, L. H., 2 *C.* 421 Green.
Dowd, E. P., 1 *V.*
22 E. Windsor St., Roxbury.
Downer, C., 3 *C.* W. 21.
Downs, W. C., 2 *C.* S. 16.
Drake, H. B., 4 *C.* 16 Ash.
Draper, F. W., *Asst. Prof.*
304 Marlborough.*
Draper, J. R., 3 *M.*
512 E. Broadway, So. Boston.
Dresel, E. L., 1 *L.* W. 32.
Drew, B. L., 2 *C.* 122 Oxford.
Drown, E. S., *G.* Lawrence 23.
Duane, R., 4 *C.* G. 2.
Dudley, A. W., 1 *C.* 158 North Ave.
Dudley, J. W., 1 *M.* Harv. Med. Sch.
Duff, J., 1 *C.* Little's 27.

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Duff, J., 1*M.* 14 Sheafe St., Charlèstown.
Duffield, H. M., 2*C.* W. 8.
Dunbar, C. F., *Prof.* 14 Highland.
Duncan, F. S., 2*C.* Felton 23.
Dunham, S. R., 3*C.* G. 21.
Dunham, T., 3*M.* 93 Boylston.*
Dunlap, C. B., 3*C.* 19 Church.
Durfee, R. N., 3*C.* W. 34.
Durgin, S. H., *Lect.* 579 Tremont.*
Dustan, E. W., 3*C.* 379 Harvard.
Dwight, E. W., 1*M.* Auburndale.
Dwight, T., *Prof.* 235 Beacon.*
Dwyer, A. F., *sL.* 12 Fairmont Ave.
Eames, F. H., 3*C.* W. 51.
Eastman, C. R., 1*C.* Felton 20.
Eaton, C. M., 2*C.* C. 7.
Eaton, F. G., 3*C.* W. 17.
Eaton, W. C., 2*C.* M. 36.
Eckelman, M. M., 2*C.* 26 Mellen.
Eddy, C. L., 2*C.* H'ke 17.
Edmands, J. R., *Asst. in A. O.* 63 Garden.
Edson, C. E., 4*C.* T. 8.
Edwards, H., 4*C.* M. 2.
Edwards, J. L., 1*C.* S. 2.
Eigenmann, C. H., *G.* 13 Kirkland Pl.
Eldred, G., 1*L.* 715 Cambridge.
Eldridge, J. R., 4*C.* 42 Mt. Auburn.
Eliot, C. W., *President*, 17 Quincy.
Eliot, G., 3*M.* Brookline.
Elkins, W. P., 4*C.* C. 52.
Ellis, W. S., 3*C.* 37 Brattle.
Embick, J. B., *sC.* 96 Prescott.
Emerson, K. B., 1*C.* 37 Trowbridge.
Emerson, R. L., 1*C.* Little's 30.
Emerson, W. C., *Asst.* 19½ Beacon.*
Emerton, E., *Prof.* 58 Shepard.
Emmons, A. P., 1*C.* G. 4.
Endicott, J., 3*C.* M. 3.
Endicott, R. R., 2*C.* M. 3.
Endicott, W. C., *Fellow*, Washington, D. C.
Ensworth, W. H., 4*M.* 7 Chelsea St., E. Boston.
Ernst, H. C., *Demonstr.* 24 Greenough Ave., Jamaica Plain.
Estes, F. R., 1*C.* Felton 14.
Everett, C. C., *Prof.* and *Dean of Div. School*, 53 Garden.
Everett, H. E., *B.* 77 Pinckney.*
Everett, O. 1*C.* Little's 16.
Everett, T., 3*M.* 165 West Canton.*
Everett, T., 1*C.* M. 18.
Ewald, C. A., 4*C.* M. 59.
Fairbank, K., 2*C.* 13 Bow.
Fales, F. L., 3*C.* H. 2.
Farlow, W. G., *Prof.* H'ke 29.
Farnum, C. E., 4*C.* M. 2.
Farnum, W. D., 1*V.* Waltham.
Farquhar, W. J., 1*C.* 866 Main.
Farquharson, C. D., *sC.* T. 6.
Faulkner, R. E., 2*C.* T. 27.
Faulkner, W. E. 1*M.* Harv. Med. Sch.
Faxon, C. E., *Asst. in Arboretum*, Jamaica Plain.
Faxon, F. W., 3*C.* 12 Remington.
Federhen, H. M., 3*C.* T. 38.
Fenety, H. G., 1*L.* 17 Holyoke.
Fenoulhet, J. H., 1*M.* Harv. M. Sch.
Fessenden, R. G., 2*C.* 60 Mt. Auburn.
Fewkes, J. W., *Asst. in M. Z.* 8 Roseland.
Fick, J. F. W., 1*C.* 42 Mt. Auburn.
Field, H. H., 4*C.* 8 Appian Way.
Field, M., 1*C.* Beck 23.
Fillebrown, T., *Prof.* 74 Boylston.*
Finlay, J. R., 1*C.* 138 Mt. Auburn.
Finn, E. W., 1*M.* Dedham.
Finney, J. M. T., 3*M.*, 110 Boylston.*
Fisher, B., 2*C.* C. 19.
Fisher, T. W., *Clin. Instr.* Lunatic Hospital, So. Boston.
Fisk, A. L., 3*M.* 20 Temple.*
Fisk, L. B., *Auditor of Dining Assoc.* 107 Ellery.
Fiske, E., 1*L.* 29 Crescent.
Fiske, G. S., 1*C.* Little's 26.
Fiske, H. B., 1*C.* 22 Berkeley.
Fiske, J., *Overseer*, 22 Berkeley.
Fiske, W. E., 2*C.* C. 20.
Fitz, G. W., 1*M.* 4 Ferdinand.*
Fitz, R. H., *Prof.* 18 Arlington.*
Fitzhugh, E. F., 1*C.* 8 Holyoke.
Flagg, E., 1*L.* 147 Boylston.*
Flagg, F. P., 1*M.* Woburn.
Fletcher, J. B., 1*L.* T. 31.
Flint, G., 3*C.* W. 19.
Flint, W. K., *sC.* Read's 12.
Foerste, A. F., *G.* 9 Story.
Fogg, H. T., 2*C.* W. 22.
Foley, W. H., 1*C.* G. 46.
Folsom, C. F., *Lecturer*, 15 Marlborough.*
Foote, E. M., 1*M.* 21 Upton.*
Forbes, R. E., *sC.* T. 34.
Ford, G. C., 2*L.* 16 Ash.
Ford, J. B., *sC.* 656 Cambridge.

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Forrest, L. F., 2*M.* 32 Flagg.
Forsyth, W. G., 4*C.* 14 Oxford.
Foss, C., *sC.* 27 Irving.
Foster, A. F., 2*L.* 6 Story.
Foster, C. A., 2*M.* Harv. Med. Sch.
Fourtin, E. R. P., 1*M.* 102 Appleton.*
Fowler, H. N., *Instr.* H'y 3.
Fowler, W. E., 4*C.* M. 26.
Fox, W. Y., 4*M.* 61 Clarendon.*
Foxcroft, F. A., 2*C.* Lawrence 19.
Frame, J. E., 1*C.* Shepherd 7.
Francis, C. S., 4*C.* M. 6.
Francke, K., *Asst. Prof.* S. 21.
Frank, A. R., *sC.* 739 Cambridge.
Frank, L. E., 3*C.* H'ke 5.
Franklin, R. M., 1*C.* 19 Irving.
Friend, C., 4*C.* W. 29.
Frost, L. P., 2*L.* Arlington.
Frost, R. W., 1*L.* M. 54.
Frothingham, L., 3*V.* 210 Beacon.*
Frothingham, P. R., 2*Dv.* D. 27.
Frye, A. E., 1*L.* C. 51.
Frye, J. A., *sL.* H'y 9.
Fuller, D. H., 2*M.* 79 Dartmouth.*
Fuller, E., 2*L.* 717 Cambridge.
Fuller, R. H., 4*C.* W. 44.
Fullerton, R. M., 2*C.* Waltham.
Furber, G. P., *Proct.* (also 1*L.*) T. 54.
Furness, H. H., 4*C.* M. 48.
Furness, W. H., 4*C.* M. 48.
Furniss, W. P., *sS.* 132 Huntington Ave.*
Gage, F. H., 2*V.* West Medford.
Gage, T. H., 2*L.* G. 26.
Gale, H. E., 4*C.* M. 21.
Gale, W. W., 4*C.* M. 11.
Gallivan, J. A., 4*C.* } 37 Bolton St.,
Gallivan, W. J., 4*C.* } So. Boston.
Gamble, T. A., 1*L.* 714 Cambridge.
Gambrill, C. LeD., 1*C.* 17 Kirkland.
Gannett, W. W., *Instr.* 110 Boylston.*
Ganong, W. F., *Asst.*, C. 56.
Garceau, A. J., 1*C.* 884 Main.
Garceau, E., 3*M.* 22 Highland.*
Gardner, A. P., 1*L.* 9 Pinckney.*
Gardner, W. A., *G.* Groton.
Garland, G. M., *Instr.* 227 Newbury.*
Garman, S., *Asst. in M. Z.* D. 11.
Garrison, L. M., 4*C.* H'ke 23.
Garrison, P. M., 2*C.* 739 Cambridge.
Gasquet, M. J., 4*C.* 404 Harvard.
Gassett, W., *B.* 17 Congress.*
Gates, L. E., *G.* Berlin, Germ.
Gates, S. M., *sC.* 26 Garden.
Gaveau, C., 1*M.* 67 Dartmouth.*
Gay, A. P., 4*C.* M. 30.
Gay, W. F., 2*C.* Shepherd 3.
Gay, W. F., 2*Dn.* 7 Milford Pl.*
Gearv[illegible] W., 1*C.* 16 Winthrop.
Geu[illegible] J., *G.* 688 Main.
Geist, G. P., 3*Dn.* 147 W. Newton.*
George, H. J., 1*C.* S. 16.
Gersdorff, C. A. de, 1*L.* 1 Garden.
Gersdorff, G. B. de, 4*C.* 1 Garden.
Gerstle, M., 3*C.* H'ke 5.
Gibbs, W., *Prof. Em.* Newport, R. I.
Giblin, F. J., 2*M.* 794 Fourth St., So. Boston.
Gibson, C. L., 2*M.* 45 Mt. Vernon.*
Gibson, H. B., 4*C.* D. 24.
Giddings, C. I., 1*L.* M. 12.
Giese, W. F., 3*C.* 419 Broadway.
Gilbert, H. L., 4*C.* H'ke 25.
Gill, M. E., 2*C.* C. 47.
Gitterman, J. M., 4*C.* W. 29.
Glazier, H. S., 2*C.* 20 Prescott.
Gleason, A. A., 2*L.* S. 29.
Gleason, C. W., 4*C.* S. 12.
Gleason, E. P., 1*M.* Needham.
Gleason, S., 3*C.* M. 57.
Gledhill, H. R., *sC.* 12 Kirkland Pl.
Goddard, W. W., 2*C.* T. 63.
Goebel, G. A., 3*C.* S. 13.
Goldthwait, J. E., 3*M.* Marblehead.
Goldthwaite, G. T., 1*C.* 25 Holyoke.
Goodale, G. L., *Prof.* 8 Craigie.
Goodale, J. L., 3*C.* 8 Craigie.
Goodale, W. T., *M.* Saco, Me.
Goodhue, S. A., 4*C.* H'ke 46.
Gooding, J. F., 4*C.* H'y 2.
Goodwin, C. H., 4*C.* 5 Follen.
Goodwin, W. W., *Prof.* 5 Follen.
Gordon, E. B., 4*C.* S. 23.
Gordon, G. A., *Preacher*, Old South Parsonage, Boylston St.*
Gorey, J. P., 1*C.* 646 Cambridge.
Gorham, J. D., 1*C.* 26 Holyoke.
Gorham, R. S., 3*L.* S. 30.
Gould, B. A., 1*C.* 29 Kirkland.
Gould, E. J., *sC.* 38 Chester St., Somerville.
Graef, C. A., *sC.* Felton 11.
Graham, J. D., 2*C.* 57 Third.
Graham, P. W., 4*C.* 27 Irving.
Grandgent, C. H., *Tutor*, 19 Wendell.

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Grant, H. L., 1 *M.* Wakefield.
Graves, F. P., 3 *Dn.* 355 Columbus Ave.*
GRAY, A., *Prof.* Botanic Garden.
Gray, C. H., 2 *M.* Waltham.
Gray, G. H., 3 *C.* 2[illegible]oke.
GRAY, J. C., *Prof.* 176 Beacon.*
Gray, J. F., 1 *C.* Manter 8.
GRAY, J. H., *Proctor,* C. 17.
Greeley, C. DeV., *Dv.* 4 Divinity Av.
GREEN, C. M., *Instr.* 78 Marlboro'.*
Green, F., 3 *C.* M. 29.
GREEN, J. O., *Clin. Instructor,* 15 Mt. Vernon.*
GREEN, S. A., *Overseer,* 72 Harrison Ave.*
Green, W. C., 3 *C.* D. 34.
Greene, A. L., 2 *C.* W. 39.
Greene, C., 3 *C.* G. 34.
Greene, H. E., *G.* Garden City, L. I.
GREENLEAF, R. W., *Asst.* 241 Boylston.*
Greenman, W. F., 3 *Dv.* H. 9.
GREENOUGH, F. B., *Clin. Instructor,* 10 Charles.*
GREENOUGH, J. B., *Prof.* Riedesel Ave.
Greenwood, A., 3 *M.* Waltham.
Greer, L. M., 1 *C.* Felton 22.
Grew, E. W., 3 *C.* H'y 21.
Griffin, C. L., 4 *C.* G. 37.
Griffin, L., *sC.* 714 Cambridge.
Griffin, W. L., 1 *C.* T. 41.
Griffing, E. S., 3 *C.* S. 11.
Grime, G., 1 *L.* 12 Shepard.
Grimes, W. P., 1 *M.* 29 Dartmouth.*
Grinstead, W. W., 2 *L.* M. 8.
Griswold, L. S., 3 *C.* 14 Oxford.
Grouard, J. S., 2 *M.* 307 Col'bus Av.*
Grover, A. B., 2 *C.* M. 60.
Grünewald, P., 3 *Dn.* 54 Hancock.*
Guerin, T., 1 *C.* 48 Holyoke.
Guild, C. F. M., *sL.* W. 43.
Gulick, C. B., 1 *C.* D. 10.
Gunther, B. G., 3 *C.* Felton 35.
Gunther, E. C., 3 *C.* Felton 35.
Hackett, K. S., 1 *C.* H'ke 41.
Hadcock, C. E., 1 *V.* Cambridge.
HAGEN, H. A., *Prof.* 7 Putnam Ave.
HALE, E. E., *Preacher,* 39 Highland St., Roxbury.
Hale, H. D., 4 *C.* H'ke 21.
Hale, R. B., 1 *C.* C. 28.
Hale, R. S., 1 *C.* 24 Holyoke.
Haley, H. W., *G.* 46 North Ave.
Hall, A., 1 *C.* H. 5.
HALL, A. L., *Proctor,* H'ke 7.
Hall, A. O., *sC.* F. R. R. Office.*
HALL, E. H., *Instr.* 5 Avon.
Hall, E. J., 4 *C.* G. 12.
Hall, G. C., 1 *M.* 103 Br'dway, Chelsea.
Hall, G. G., 4 *C.* T. 49.
Hall, J. M., *G.* H. 23.
Hall, J. W., 3 *C.* Felton 18.
Hall, J. O., 1 *C.* 65 Oxford.
Hall, P. F., 3 *C.* 16 Winthrop.
Hall, S. S., 4 *C.* H. 5.
Halliday, A. B., 1 *C.* T. 42.
Hallowell, J. M., 4 *C.* T. 5.
Halpine, A. J., 1 *M.* 83 Essex.*
Hambleton, E. L., *sC.* 78 Mt. Auburn.
Hamburger, G., 1 *C.* 746 Cambridge.
Hammerslough, C. R., 4 *C.* W. 4.
Hammett, P. M., 4 *C.* 26 Garden.
Hammond, E. C., *sC.* 739 Cambridge.
Hammond, F. I., 2 *Dn.* Providence, R. I.
Hand, A. N., 2 *C.* 49 Oxford.
Hansen, O. R., 2 *L.* Hilton 4.
Hanson, H. W., 4 *C.* C. 1.
Hapgood, N., 2 *C.* H. 19.
Harding, G. F., 3 *M.* 14 Arlington.*
Harding, V. M., 3 *C.* H'y 4.
Hare, C. H., 3 *M.* 79 Dartmouth.*
Harlow, J. F., 4 *C.* T. 58.
Harper, J. F., 1 *L.* 14 Mellen.
Harriman, E. A., 4 *C.* D. 22.
HARRINGTON, C., *Instr.* 399 Boylston.*
Harrington, E. T., 1 *V.* 837 Broadway, So. Boston.
Harrington, J. C., 1 *V.* Everett.
Harrington, T. F., 3 *M.* 22 Lynde.*
Harris, B. A., 2 *V.* Belmont.
HARRIS, F. A., *Demonstr.* 59 Chambers.*
Harris, R. H., *sC.* 15 Ware.
HARRIS, T. W., *Asst.* D. 40.
Harrison, P. J., 1 *C.* M. 51.
Harrison, R. C., 2 *C.* M. 51.
HART, A. B., *Instructor,* H. 7.
Hart, F. J., 2 *C.* 20 Mystic St., Charlestown.
Hartridge, J., 2 *C.* H'y 24.
Hartshorn, G. T., *G.* Taunton.
Harvey, E. B., 4 *C.* W. 25.
Harvey, G. S., 3 *C.* T. 3.

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Harvey, L. A., 2*Dv.* D. 12.
Harwood, C. H., 3*C.* M. 32.
Haskell, A. S., 4*S.* H. 22.
Haskell, H. H., 2*C.* M. 4.
Haskell, M. W., *G.* Göttingen, Germ.
Hastings, D. G., 3*M.* 80 Worcester.*
Hatch, A. G., *Proctor* (also *L.*) Read's 4.
Hathaway, T. S., 2*C.* Little's 20.
Hawkins, J. W., *sC.* Francis Ave.
Hay, G., 4*C.* 39 Brattle.
Hayes, A. S., 1*C.* Shepherd 14.
Hayes, H. E., 4*C.* Shepherd 14.
Hayes, J. J., *Instr.* Little's 19.
Haynes, F. E., 3*C.* T. 28.
Haynes, H. H., *G.* 36 Wallace.
Healey, A. E., *sC.* 467 Broadway.
Hebard, A. P., 3*C.* W. 16.
Hecht, S. L., 2*C.* M. 31.
Heffernan, J. A., 2*M.* 156 Prospect.
Heidingsfeld, B. L., *sL.* 714 Cambridge.
Henderson, E. F., *G.* 750 Cambridge.
Henderson, J. B., 1*C.* 10 Remington.
Henderson, W. F., 1*C.* 96 Prescott.
Henderson, W. P., 4*C.* Linden Ave., Roxbury.
Hendricken, T. F., 1M. Harv. M. Sch.
Henshaw, A., 3*C.* G. 8.
Henshaw, G. B., 1*C.* 49 Linnaean.
Henshaw, H. A., 1*Dv.* Montvale.
Herman, H. N., 3*C.* 5 DeWolf.
Herrick, R. D., *sC.* Little's 1.
Herrick, R. F., *sC.* H. 25.
Herrick, R. W., 2*C.* S. 1.
Hervey, C. S., 4*C.* S. 14.
Hervey, H. W., 4*C.* M. 11.
Hesseltine, N. F., 4*C.* T. 57.
Hewes, H. F., 2*C.* M. 29.
Heydecker, H. R., 2*M.* 7 Newbury*
Heywood, C., *sC.* 404 Harvard.
Heywood, D. H., *sC.* 81 Staniford.*
Hicks, H. H., 2*V.* 220 Devonshire.*
Hicks, J., 2*V.* 379 Columbus Ave.*
Higgins, J. J., 1*L.* 28 Quincy.
Higginson, A. B., *sC.* Little's 32.
Hight, C. A., 3*C.* S. 1.
Hildreth, H. T., *G.* Berlin, Germ.
Hildreth, S. D., 3*C.* T. 3.
Hill, A. S., *Prof.* Reservoir St.
Hill, B. T., *sL.* W. 46.
Hill, H. B., *Prof.* 77 Pinckney.*
Hill, J. A., *G.* 10 Oxford.
Hill, M. F., 2*C.* 366 Harvard.
Hill, O. S., 1*C.* 34 Mellen.
Hills, W. B., *Asst. Prof.* 54 Langdon.
Hinckley, D. T., *Supt. of Bussey Farm,* Roslindale.
Hinckley, W. B., 2*C.* 866 Main.
Hinds, A. W., *G.* 646 Cambridge.
Hipkiss, G., 1*M.* 137 Pembroke.*
Hitchcock, F. H., 1*C.* 33 Cedar St., Somerville.
Hitchcock, H. R., 1*M.* 309 Columbus Ave.*
Hoar, S., *Overseer,* Concord.
Hobart, E., 3*C.* 18 Appian Way.
Hobbs, M. C., *Proctor,* (also 3*L.*) C. 5.
Hochdörfer, C. F. R., *Instructor.* 26 Wallace.
Hodges, A. D., 3*C.* M. 24.
Hodges, R. M., *Overseer,* 408 Beacon.*
Hodgman, A. W., 2*C.* 9 Story.
Hoen, E., 3*L.* 138 Mt. Auburn.
Hoffmann, R., 2*C.* C. 64.
Holden, A. F., 4*C.* W. 1.
Holden, E. M., 2*M.* 12 Beethoven.*
Holder, D. C., 4*C.* H'y 8.
Holder, O. H., 4*C.* H'y 8.
Holland, F. J., *sL.* 94 Pembroke.*
Holland, J. F., 1*L.* H. 13.
Holland, M. J., 1*C.* 10 Oxford.
Holland, R. A., 4*C.* Lawrence 17.
Holliday, G. H., 3*C.* C. 21.
Holmes, A., *sC.* 11 Appian Way.
Holmes, E. P., 3*Dn.* Whitman.
Holmes, O. W., *Prof. Em.* 296 Beacon.*
Holmes, O. W., *Prof. Em.*
Holt, A. C., 1*C.* G. 42.
Holt, D. B., 2*C.* C. 68.
Homans, J., *Clin. Instr.* 161 Beacon.*
Homans, J. E., *sC.* D. 26.
Honoré, L., 4*C.* H'ke 4.
Hooper, E. W., *Treas.* Reservoir St.
Hooper, L. L., 3*C.* H'ke 45.
Hoover, C. F., 1*M.* 61 Clarendon.*
Hopkins, E. E., *Instr.* 85 Newbury.*
Hopkins, F. S., 3*Dn.* Newtonville.
Hopkinson, C. S., 1*C.* W. 38.
Horne, C. C., *sC.* 735 Cambridge.
Horton, W. G., 4*C.* 41 Commonwealth Ave.*
Hosmer, E. H., 1*M.* M. 33.
Hosmer, E. S., 4*C.* M. 33.
Houghton, S. A., 1*M.* 12 Cordis St., Charlestown.
Housman, H. S., 2*C.* W. 37.

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Hovey, J. W., *sC.* T. 63.
How, J. E., *sC.* 404 Harvard.
Howard, A. L., 4*C.* 826 Main.
Howard, W. G., 1*C.* 6 North Ave.
Howe, G. S., 3*C.* H'y 19.
Howe, M. A. de W., *G.* Wadsw'th 9.
Howe, O., 1*C.* T. 46.
Howells, J. M., 1*C.* H'ke 3.
Howland, L. P., 1*L.*, , 27 Irving.
Hubbard, A. A., 2*C.* H. 15.
Hubbard, G., 1*L.* 210 Beacon.*
Hubbard, G. H., *G.* 5 Richdale Ave.
Huddleston, J. H., 2*M.* 1451 Tremont.*
Hudson, C., 1*L.* T. 20.
Hudson, H., 2*C.* T. 20.
Hull, M. D., 3*C.* Felton 24.
Hunneman, C., 3*C.* T. 15.
Hunnewell, H. H., 2*C.* Beck 24.
Hunt, D. L., 1*C.* 17 Dunster.
Hunt, P., *sS.* 140 Marlborough.*
Hunt, T., 1*L.* M. 34.
Hunter, G. L., 3*C.* G. 38.
Huntington, F. C., 1*L.* D. 41.
Huntington, L. F., 2*C*, Little's 21.
Huntington, O. W., *Instr.* 12 Ware.
Huntress, F. A., 1*C.* C. 32.
Huntress, F. E., 3*C.* 318 Elm St., Somerville.
Hurlbut, B. S., *G.* Felton 28.
Hurley, T. B., *sC.*
Hurst, C. B., 1*C.* 96 Prescott.
Hutchinson, J. P., 1*C.* Read's 6.
Hutchinson, W. P., 3*C.* 25 Brook St., Somerville.
Hyatt, A., *Asst. in M. Z.* 7 Avon.
Hyde, L. F., 1*L.* S. 8.
Irwin, F., 2*C.* W. 39.
Isham, C., *G.* New York, N. Y.
Isham, R., *sC.* H'ke 43.
Jackson, A. C., 4*C.* G. 36.
Jackson, C. L., *Prof.* H'y 11.
Jackson, J. M., 1*M.* 84 Dudley St., Roxbury.
Jackson, L. L., *Asst.* Brighton.
Jackson, R. T., *G.* Mus. Comp. Zoöl.
Jacobs, F. B., 3*C.* H'ke 28.
James, W., *Prof.* 18 Garden.
Jellinek, E. L., 3*C.* M. 55.
Jelly, A. C., 2*M.* 123 Boylston.*
Jenkins, J. R., 1*C.* Lawrence 24.
Jenkins, T. L., 2*M.* Revere.
Jenks, B. P., 1*C.* 78 Mt. Auburn.
Jenks, H. D., 2*C.* C. 7.
Jennings, W. L., 3*C.* 17 Maple Ave.
Jepherson, G. A., 1*L.* 25 Holyoke.
Jerris, F. L., 1*C.* 13 Sumner.
Jewell, E. C., 3*C.* 5 Inman.
Jewett, J. R., *Instr.* 54 Concord Av.
Jewett, L. M., 1*C.* W. 24.
Job, H. K., 4*C.* 1631 Tremont.*
Job, R., 2*C.* 1631 Tremont.*
Joel, C. L., *sV.* 24 Appleton.*
Johnson, A. T., 4*C.* H. 1.
Johnson, E. S., 3*M.* 81 Bunker Hill.*
Johnson, H. H., 3*L.* C. 54.
Johnson, H. P., 3*C.* Everett.
Johnson, J. E., 1*C.* C. 27.
Johnson, L. J., 4*S.* H. 2.
Johnson, T. D. B., 1*M.* 861 Main.
Joline, O. C., 3*C.* C. 35.
Jones, C. D., 2*M.* Melrose.
Jones, E. S., *sC.* Shepherd 5.
Jones, F. R., 1*L.* 273 Newbury.*
Jones, G., 1*C.* 38 North Ave.
Jones, L. A., 2*M.* 50 Chambers.*
Jones, L. C., 1*M.* Harv. Med. Sch.
Jones, R., 2*C.* M. 17.
Jones, W. M., 2*C.* Nonantum.
Jones, W. P., 1*C.* Vernon St., Somerville.
Jones, W. R., 2*Dn.* 369 Harvard.
Judson, C. F., 2*C.* W. 11.
Judson, O. B., 2*C.* W. 11.
Kaan, F. W., 3*L.* 12 Pleasant Ave., Somerville.
Kaan, G. W., 2*M.* 12 Pleasant Ave., Somerville.
Kahnweiler, C. F., 4*C.* T. 21.
Kalopothakés, F. D., 4*C.* S. 18.
Kattenhorn, G. H., 2*L.* T. 4.
Keasbey, L. M., 4*C.* H'ke 26.
Keenan, G. E., *sC.* 10 St. James Ave.*
Keene, G. W., 1*C.* T. 56.
Keener, W. A., *Asst. Prof.* 71 North Ave.
Keep, C. M., 3*M.* 235 Marlborough.*
Keesing, J. B., 2*Dn.* 45 Hancock.*
Keith, V. W., 1*Dn.* Felton 8.
Keleher, F. J., 2*M.* 38 Garden.*
Kelham, F. K., 3*C.* G. 37.
Kellam, E. R., *sC.* M. 13.
Kelley, G. D., 2*M.* 290 Col'bus Ave.*
Kelley, H. A., 3*Dn.* 534 Broadway, So. Boston.
Kelley, M. E., 4*C.* 21 Tremont.
Kelley, S. A., 1*M.* 50 Tremont St., Charlestown.

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Kellner, M. L., *G.* Lawrence 29.
Kellogg, H. T., 3*C.* H'ke 1.
Kellogg, R. A., 4*C.* H'ke 1.
Kelly, E. P., 2*C.* C. 18.
Kenefick, J. A., 2*M.* 19 Exeter.*
Kenison, N. S., 2*M.* 57 Temple Pl.*
Kennard, F. H., 4*C.* Manter 4.
Keyes, G. T., 3*C.* H'y 18.
Kidder, E. H., 4*C.* C. 57.
KIDDER, N. T., *Instr.* Milton.
Kielty, J. F., 2*C.* 1½ Banks.
KIERNAN, T. J., *Asst. in Library,* 25 Trowbridge.
Kiggen, J. M., 1 *V.* Hyde Park.
Kilroy, P., 3*M.* 25 Hanson.*
Kilvert, M. A., *sC.* S. 11.
Kimball, F. J., 1 *V.* Malden.
Kimball, M. D., 3*C.* Read's 10.
Kimball, W. R., 4*C.* 717 Cambridge.
Kimberly, S., *sC.* 896 Main.
King, C. C., 3*L.* H. 15.
King, J. G., 3*C.* T. 18.
King, T. P., 1*C.* W. 30.
King, W. R., 1*M.* 119 Main St., Charlestown.
Kingsley, G. L., 2*M.* The Oxford.*
Kingsley, W. L., 2*M.* The Oxford.*
Kinyon, E. L., 2*C.* 23 Irving.
KIRBY, E. N., *Instr.* (also 3*C.*) 71 Sacramento.
Kirby, H., 1*Dn.* 8 Lawrence.*
Knapp, A. H., 2*C.* G. 39.
Knapp, E. J., *sC.* T. 7.
Knapp, W. P., *sC.* 45 Trowbridge.
Knight, A. S., 1*M.* 5 Dexter Row, Charlestown.
KNIGHT, F. I., *Asst. Prof.* 131 Boylston.*
Knowles, F. W., 4*C.* 410 Harvard.
Knowlton, H. E., 1*M.* 29 Dartmouth.*
Kohn, A. D., 1*C.* 20 Prescott.
Koshland, A., 2*C.* G. 52.
Krebs, F. H., *sC.* T. 65.
Kuhn, A., 1*L.* 715 Cambridge.
Kuhn, H., 1*L.* H'ke 50.
Kuhn, R., 2*C.* G. 28.
Ladd, G. E., *G.* Bradford.
Laflin, M., 1*C.* W. 14.
Lamb, G. N., 1*C.* 112 Brattle.
Lane, A. C., *G,* 623 Tremont.*
Lane, F. E., 3*C.* G. 31.
LANE, G. M., *Prof.* 42 Quincy.
LANE, W. C., *Asst. in Library,* 19 Oxford.
LANGDELL, C. C., *Prof.* and *Dean of Law Sch.* 37 Quincy.
LANMAN, C. R., *Prof.* H. 21.
Lapeyre, G. F., 2*L.* 404 Harvard.
Lapsley, J. W., 1*C.* 408 Harvard.
Latham, C. S., 4*C.*
Lathrop, H. B., 3*C.* 46 North Ave.
LATHROP, J. G., *Asst.* 13 Avon.
LATIMER, G. D., *Proctor* (also *sDv.*) Felton 17.
Latta, W. J., 2*C.* W. 43.
LAUGHLIN, J. L., *Asst. Prof.* 101 Brattle.
Lawrence, J., 1*L.* 4 Garden.
Lawrence, J. W., 1*C.* H'ke 8.
Lawrence, S. C., 2*C.* 22 Brookline.
Lawton, P., 4*C.* H. 25.
Leach, J. G., *sC.* 1 Dana.
Leach, W. W., *sC.* 1 Dana.
Leahy, W. A., 4*C.* S. 23.
Learned, H. B., 2*C.* M. 46.
Leary, L. C., 3*Dv.* D. 28.
Leavitt, E. B., 2*C.* S. 22.
Leavitt, R. G., 3*C.* 780 Main.
Lee, A., *sC.* C. 11.
Lee, B. H., 3*L.* C. 54.
LEE, D. D., *Instr.* Storey Pl., Jamaica Plain.
Lee, G. W., 3*C.* T. 61.
LEE, H., *Overseer,* Brookline.
Leeds, R. A., 1*C.* 712 Cambridge.
Lefavour, W. A., 3*C.* 5 Felton St.
Legasey, G., 1*M.* Harv. Med. Sch.
Leighton, G. B., 4*C.* W. 9.
Leiter, J., 1*C.* 48 Brattle.
Leland, C. F., *sC.* H'ke 8.
Leland, E. F., 1*C.* 96 Prescott.
Leland, R. H., 4*C.* S. 9.
Lent, G. H., 4*C.* H'ke 19.
Lentz, H. DeY., 1*C.* H'ke 38.
Le Roy, R. C., 4*C.* Beck 31.
Lewis, C. A., 2*C.* G. 50.
Lewis, H. F., 3*M.* 1485 Dorchester Ave.
Lewis, H. S., 3 *V.* 13 Boylston Pl.*
Lewis, L. R., *G.* 130 K. St., S. Boston.
Lewis, R. F., 1*C.* Little's 21.
Lillyman, F. G., *sV.* Quincy St., Dorchester.
Lima, E. de, *sC.* 750 Cambridge.
Lincoln, C. P., *sL.* 46 Laurel St., Somerville.
Lincoln, J. R., 3*M.* 375 Columbus Ave.*

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Lindley, M. A., *sL.* 18 Story.
Linn, P. B., 2*C.* M. 17.
Linn, W. W., 1*L.* M. 54.
Liscomb, A. G., *sC.* Hilton 30.
Litch, J. G. ,2*M.* Newton.
Litchfield, F. E., 1*L.* H. 3.
Littell, P., 2*C.* T. 43.
Little, A. M., *sC.* 404 Harvard.
Livingood, C. J., 4*C.* T. 60.
Livingston, C., 2*C.* Hilton 28.
LLOYD, A. H., *Proctor.* Hilton 23.
Lochman, M. A., *G.* 34 Wendell.
LOCKE, W. A., *Organist* and *Choir-Master*, 10 Putnam Ave.
Lockwood, H. D., 2*C.* H'ke 49.
LODGE, H. C., *Overseer*, Nahant.
Loeb, J., 4*C.* 20 Prescott.
Loeser, C. A., *G.* 736 Cambridge.
Loewenstein, D. W., 1*L.* C. 50.
Lombardino, W., 2*Dn.* 56 Clarendon.*
Longstreth, J., *sC.* D. 6.
Longworth, N., 1*C.* Hilton 6.
Lord, F. B., 3*C.* S. 19.
Lord, S. A., *sC.* C. 55.
Lord, W. S., 1*V.* Salem.
Lothrop, H. A., 1*M.* 294 Columbus Ave.*
Lothrop, W. S. H., 2*C.* 52 Brattle.
Loud, C. E., *G.* 135 Mt. Vernon.*
LOVERING, J., *Prof.* 38 Kirkland.
LOWELL, F. C., *Overseer*, 159 Beacon.*
Lowell, J. A., 1*C.* Little's 15.
LOWELL, J. R., *Prof. Em.* and *Overseer*, Southborough.
Luce, L., *G.* H. 1.
Luce, M., 1*C.* Little's 15.
Ludden, C. M., 2*L.* 17 Summer.
Lund, F. B., 4*C.* Wadsworth 14.
Lund, J. W., 2*C.* Wadsworth 14.
LUNT, E. C., *Proctor*, G. 24.
Luther, H. L., 1*Dv.* 54 Mt. Auburn.
Lydig, P. M., 3*C.* Beck 43.
LYMAN, C. P., *Prof.* 50 Village.*
LYMAN, T., *Overseer*, Brookline.
Lynch, C., *sC.* Little's 11.
Lynch, W. D., 1*M.* Harv. Med. Sch.
LYON, D. G., *Prof.* 7 Lowell.
Lyons, W. H., 1*M.* 20 Worcester Sq.*
McAdams, J. P., 1*C.* C. 47.
McAfee, F., *sC.* D. 14.
McAllister, H., 2*L.* 750 Cambridge.
McCabe, J. E., 2*M.* Harv. Med. Sch.
McCall, F. E., 4*C.* 65 Mt. Auburn.
McCammon, J. W., 4*C.* 9 Story.
McCarthy, T. H., 2*M.* N. Easton.
McCleary, S. F., 4*C.* H'ke 16.
McCordic, A. E., 2*L.* 64 Buckingham.
McCormick, J., 4*S.* C. 44.
McCoy, J. C., 1*C.* Read's 28.
McCulloch, H., 1*C.* 5 Linden.
McCurdy, S., 2*C.* D. 25.
McDonald, G. M., *sL.* Beck 4.
McDuffie, R. L., 1*C.* S. 20.
McFarland, W. H., *sC.* 8 Sumner.
McGehee, C. C., *G.* 49 Oxford.
McGeoch, A. N., 1*C.* 11 Mason.
McInnes, W. M., 3*L.* S. 30.
McIntyre, W. J., *sL.* 20 Hudson.*
Mack, E. S., 1*C.* 379 Harvard.
Mack, J. W., *G.* Berlin, Germ.
Mackay, W. W., 3*C.* Read's 10.
McKean, F. B., 2*C.* C. 6.
MCKENZIE, A., *Preacher*, 12 Garden.
McKenzie, K., 1*C.* 12 Garden.
Mackin, R. J., 1*M.* 61 Greenwich Pl., Dorchester.
McLellan, W. H., 1*L.* 715 Cambridge.
McLeod, S., 2*C.* M. 50.
MacNichol, G. P., *sC.* 29 Holyoke.
McPherson, G. S., 3*C.* T. 55.
McPherson, H. S., 1*C.* T. 55.
McPherson, W. E., 1*M.* Canton.
MACVANE, S. M., *Prof.* 34 Kirkland.
Magee, W. W., 3*C.* Felton 24.
Magoun, F. P., 1*C.* Read's 22.
Magoun, K., 1*C.* Read's 22.
Magoun, W. R., 2*C.* T. 64.
Mahany, R. B., 4*C.* 46 Mt. Auburn.
Mahoney, M. P., 1*M.* 9 Burroughs Pl.*
Mahoney, S. A., 3*M.* 20 Worcest'r Sq.*
Mairs, G. H., 2*C.* Hilton 1.
Mallory, F. B., 2*M.* 199 W. Newton.*
Malone, J. T., 2*C.* M. 55.
Mancha, R., *sC.* M. 16.
Mandell, G. S., 3*C.* W. 18.
Manley, S. C., 3*C.* Hilton 18.
Mann, W., *sC.* C. 45.
Manning, R. C., 4*C.* 5 Felton St.
Mansfield, R. J., 3*M.* 5 Stoughton St., Dorchester.
Manson, J. F., 1*M.* Harv. Med. Sch.
Marble, M. M., 3*C.* 13 Mt. Auburn.
Marden, F. S., 4*C.* W. 33.
Mariner, J. W., *sC.* 60 Brattle.
MARK, E. L., *Prof.* 21 North Ave.

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Markley, J. L., *G.* 26 Mellen.
Markoe, J. B., *sC.* 37 Brattle.
Marks, A. B., 4*C.* M. 59.
Marple, L. E., 1*C.* S. 2.
Marquand, P., 3*C.* 13 Bow.
Marquardt, H. S., *sC.* 99 Mt. Auburn.
Marsh, G. E., 4*C.* 362 Harvard.
Marsh, W. R., 3*C.* 362 Harvard.
Martin, W. B., *sS.* 19 Irving.
Marvin, J. M., 3*C.* Hilton 26.
Mason, E. C., 4*C.* S. 31.
Mason, F., *sC.* 42 Mt. Auburn.
Mason, H. L., 4*C.* H'ke 4.
Mastin, J. J., *sC.* 36 Irving.
Masuda, K., 1*Dn.* Hotel Pelham.*
Mather, M. W., 2*C.* H'ke 28.
Matthews, C. S., 1*C.* Read's 6.
Mayberry, C. B., *M.* Harv. Med. Sch.
Maynadier, G. H., 3*C.* 9 Plympton.
Mead, G. C., 1*C.* H. 28.
Mead, G. H., 4*C.* 11 Sumner.
Mead, J. R., *sL.* 14 Appian Way.
Meadows, W. G., 1*C.* 99 Mt. Auburn.
Means, F. H., 4*C.* 26 Holyoke.
Meehan, T. F. B., 1*L.* 3451 Wash'ton St., Jamaica Plain.
Meeker, H. E., 2*C.* Hilton 31.
Mellen, J. L., 2*C.* C. 40.
Meredith, S. A., *sC.* 68 Mt. Auburn.
Meriam, H. C., *Instr.* Salem.
Merriam, J. M., 2*L.* C. 5.
Merrill, G. H., 2*C.* 65 Dana.
Merrill, H. R., 2*C.* 30 Holyoke.
Merrill, J. D., 3*C.* T. 48.
Merrill, J. W., 3*C.* G. 41.
Merrill, W. E., *sC.* 467 Broadway.
Merrill, W. S., 4*C.* C. 10.
Meserve, H. F., 4*C.* Shepherd 11.
Meyer, T. G., *sC.* 1 Houghton Pl., Jamaica Plain.
Michael, F., 1*L.* 750 Cambridge.
Miles, H. R., 4*C.* T. 62.
Miller, A. C., *G.* 714 Cambridge.
Miller, C. A., 2*C.* 26 Holyoke.
Miller, G. E., *sS.* 1 Athens.
Miller, J. H., *sL.* 16 Story.
Miller, W. H., 2*L.* C. 65.
Milliken, W. L., 2*M.* 15 Ashburton Pl.*
Mills, E., 1*C.* 19 Irving.
Miner, S. R., 4*C.* T. 9.
Minot, C. H., *sL.* 301 Berkeley.*
Minot, C. S., *Asst. Prof.* 25 Mt. Vernon.*
Minot, F., *Prof.* 65 Marlborough.*
Mitchell, E. O., 1*M.* 200 Dartmouth.*
Mitchell, J., 3*C.* T. 68.
Mitchell, W., 4*C.* Read's 2.
Mix, C. L., 1*C.* 102 Ellery.
Mixter, S. J., *Demonstr.* 180 Marlborough.*
Miyabe, K., *G.* 9 Story.
Moën, E. C., 1*C.* 12 Oxford.
Monks, G. H., *Instr.* 143 Boylston.*
Monro, W. L., 3*C.* H'y 16.
Montgomery, R. B., 2*C.* Felton 26.
Moore, A. R., *sC.* Felton 20.
Moore, C. H., *Instr.* 19 Follen.
Moore, C. H., 3*C.* S. 10.
Moore, G. D., *Proctor,* H'ke 33.
Moran, J. B., *M.* 59 W. Brookline.*
Moran, M. W., *M.* Harv. Med. Sch.
Moras, E. R., 3*M.* 5 Linden Ave., Roxbury.
Moreland, D. F., 1*M.* Woburn.
Morgan, C. G., 2*C.* 139 Columbia.
Morgan, E. B., 2*L.* 410 Harvard.
Morgan, E. V., *sC.* H'ke 10.
Morgan, F. G., 1*C.* Hilton 22.
Morgan, F. P., 2*C.* G. 33.
Morgan, J. P., 3*C.* Beck 6.
Morgan, L. H., 2*C.* Beck 22.
Morgan, L. E., 1*M.* Needham.
Morgan, M. H., *Instr.* 37 Concord Ave.
Morgan, S. H., 2*L.* 713 Cambridge.
Moriarty, P. W., 2*Dn.* 37 Lynde.*
Moroney, W. J., 2*M.* 132 Chandler.*
Morrill, G. A., 2*M.* 51 E. Springfield.*
Morrill, G. B., *sC.* 11 Sumner.
Morrison, C. K., 1*C.* Read's 26.
Morse, A. G., 2*C.* H'ke 14.
Morse, C. E., 3*M.* 408 Columbus Av.*
Morse, C. F., 3*M.* 77 Myrtle.*
Morse, J. H., 2*C.* S. 15.
Morse, J. L., 1*M.* Taunton.
Morse, J. T., *Overseer,* 16 Fairfield.*
Morse, R. M., *Overseer,* Prince St., Jamaica Plain.
Morton, A. M., 2*C.* C. 38.
Morton, G., 1*C.* Hilton 11.
Morton, J. M., 1*C,* H'ke 34.
Motley, T., *Instr.* Jamaica Plain.
Moulton, R., 2*M.* 108 Appleton.*
Mowry, J. E., 3*M.* Harv. Med. Sch.
Mulford, W. W., 1*C.* 41 Bowdoin.
Mullen, T. A., *G.* Boston Lat. Sch.*
Muller, W. A., 1*C.* G. 31.

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Mullowney, P. H., 1 *V.* Longwood.
Mumford, J. G., 3 *M.* 14 Mt. Vernon.*
Mumford. N. W., 1 *C.* H'y 10.
Musaus, C. DeV., 4 *C.* S. 4.
Myer, W., 2 *C.* Hilton 35.
Myers, F. B., 2 *C.* G. 42.
NASH, B. H., *Prof.* 252 Beacon.*
Naumburg, W., 3 *C.* M. 10.
Neill, C., *sC.* 890 Main.
Nelson, M., 1 *C.* 7 Linden.
Nelson, W., 4 *C.* 379 Harvard.
Newell, J. M., 3 *C.* T. 15.
NEWELL, O. K., *Asst. Demonstr.* 311 Marlborough.*
Newhall, J. B., 3 *L.* H. 9.
Nichols, A. B., 1 *C.* T. 35.
Nichols, E. H., 2 *M.* Reading.
Nichols, J. G., *sC.* 13 Kirkland Pl.
Nickerson, J., 3 *C.* 10 Mason.
Nickerson, W. S., *sS.* 6 Charles River.
Nicolson, F. W., *G.* S. 19.
Niedermann, A. A. W., 3 *C.* D. 2.
Nields, J. P., 3 *C.* D. 30.
Niles, A. J., 1 *L.* 10 Frisbie Pl.
Noble, F. L. H., *sC.* 21 Concord Ave.
NOLEN, W. W., *Proctor*, Little's 6.
Norcross, F. F., 1 *L.* 17 Chauncy.
Norman, B., *sC.* 343 Beacon.*
Norman, G., 2 *C.* Beck 36.
Norman, G. H., 3 *C.* Beck 37.
NORTON, C. E., *Prof.* Kirkland St.
Norton, E., 3 *L.* 10 Appian Way.
Norton, H. L., 1 *C.* Felton 14.
Norton, R., 4 *C.* Kirkland St.
Norton, W. K., 4 *C.* 90 Chambers.*
Noyes, J. B., *sC.* Felton 9.
Nuss, H., *sC.* 42 Mt. Auburn.
Nutt, C., 2 *C.* C. 3.
NUTTER, G. R., *Asst.* (also 2 *L.*) Manter 7.
Nutter, R. W., 1 *C.* Felton 8.
Oaks, C. J., 1 *L.* 2 Holmes Pl.
O'Brien, J. F., 1 *M.* Harv. Med. Sch.
O'Callaghan, P. J., 4 *C.* C. 44.
O'Connor, J. J., 4 *M.* 27 Newcomb.*
Odell, W. R., 2 *C.* Hilton 5.
Oenslager, J., 1 *C.* T. 26.
Oldham, A. J., 1 *Dn.* Wellesley Hills.
O'Leary, W. C., 2 *Dn.* 40 Gray.*
Oliver, A., 1 *C.* 78 Mt. Auburn.
OLMSTED, A. H., *Clerk in Bursar's Office*, So. Hanson.
Olmsted, F. L., 2 *C.* C. 35.
Oppenheim, N., 4 *C.* T. 1.
Oppenheim, S. D., *G.* Felton 12.
Osborn, W. C., 3 *L.* 4 Mercer Circle.
Osgood, A. H., 2 *Dn.* Highland Ave., Somerville.
Osgood, G. L., 1 *C.* 20 Ware.
Osgood, W. F., *G.* Göttingen, Germ.
O'Shea, E. F., 1 *M.* 49 Chelsea St., East Boston.
Overton, R. L., 4 *C.* W. 6.
Owen, E. F., 1 *L.* D. 17.
Oxnard, H. E., 2 *L.* G. 24.
Packard, H. W., 3 *C.* Felton 16.
Page, C. G., 2 *C.* 9 Bow.
Page, C. H., 1 *C.* D. 18.
Page, H., 4 *C.* H'ke 12.
Page, H. DeB., *sC.* Felton 21.
Page, L. C., 1 *C.* G. 29.
Paige, J. D., 3 *M.* 787 Broadway, So. Boston.
Paine, J. B., 1 *C.* 13 Bow.
PAINE, J. K., *Prof.* Hawthorn St.
Paine, R. T., 4 *C.* H'ke 32.
Paine, S., 2 *C.* Shepherd 16.
Painter, G. B., 3 *C.* Beck 34.
Palmer, B. W., 4 *C.* W. 52.
Palmer, C. H., 1 *L.* H'y 7.
Palmer, F. S., 1 *L.* 46 North Ave.
Palmer, F. S., 2 *M.* Roslindale.
PALMER, G. H., *Prof.* S. 27.
Palmer, G. M., 2 *M.* 37 Temple.*
Palmer, J. N., 2 *L.* 7 Cleveland.
Palmer, W. N., 2 *C.* 7 Cleveland.
Papazian, G. H., *sC.* 4 Divinity Ave.
Papineau, A. B., *sC.* Lawrence Hall.
Park, F. E., 1 *M.* 922 Broadway, So. Boston.
Parke, L. G., 1 *C.* 24 Arlington.
Parker, C. G., *sL.* Wadsworth 11.
PARKER, C. P., *Tutor*, 20 Berkeley.
Parker, E. O., 1 *C.* S. 9.
Parker, F. E., 3 *C.* W. 21.
Parker, F. H., 1 *C.* 100 Mt. Auburn.
PARKER, G. H., *Asst.* D. 20.
Parker, H. T., 2 *C.* G. 14.
Parker, J. A., 1 *C.* 12 Oxford.
Parker, P. S., 2 *C.* 28 Holyoke.
Parker, R. F., 2 *C.* 9 Bow.
Parker, S. D., *sC.* 408 Harvard.
PARKMAN, F., *Fellow*, 50 Chestnut.*
Parsons, S., 1 *C.* Lynnfield Centre.
Partridge, C. A., 2 *V.* Saxonville.
Partridge, L. E., 3 *C.* S. 24.
Pattillo, G., 1 *C.* Felton 19.
PATTON, J. C., *Proctor.* T. 7.

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Paul, H. M., 4*C.* W. 5.
Paul, W., 3*C.* E. Saugus.
Payne, J. H., 2*M.* 342 Com'lth Ave.*
Payson, F. L., 4*C.*
Payson, G. R., 2*C.* Beck 26.
Peabody, A. P., *Prof. Em.* and *Overseer.* 11 Quincy.
Peabody, F.G., *Prof.* 13 Kirkland.
Peale, F. D., 4*C.* T. 25.
Pear, W. H., 3*C.* 20 Trowbridge.
Pearson, G. W., 1*L.* S. 32.
Pearson, M.W., 1*M.* Harv.Med.Sch.
Pease, E. A., 4*C.* W. 2.
Pease, H. H., 1*C.* W. 49.
Peckham, F. E., 2*M.* 118 Chandler.*
Peckham, H. A., 1*C.* M. 9.
Peirce, B. O., *Asst. Prof.* 51 Oxford.
Peirce, G. J., 2*S.* 686 Main.
Peirce, J. M., *Prof.* 4 Kirkland Pl.
Pelton, C. W., 2*M.* Dedham.
Pennington, C.H., *sC.* 21 Trowbridge.
Pennypacker, H., 4*C.* 134 Mt. Auburn.
Percival, D. C., 1*C.* H'ke 36.
Percy, D. T., 1*M.* Salem.
Perkins, F., 3*M.* 17 Bennet.*
Perkins, J. C., 1*Dv.* D. 16.
Perkins, N. W., 1*C.* C. 39.
Perkins, R. F., *sS.* 9 Linden.
Perkins, T. N., 1*C.* Little's 29.
Perry, F. M., 1*V.* Gordon St., Jamaica Plain.
Perry, G., 3*C.* 25 Holyoke.
Perry, H. T., 2*C.* H'ke 39.
Peterson, R., 3*M.* 171 Princeton St., E. Boston.
Peyster, C. L. de, 1*C.* Hilton 25.
Pfeiffer, E. C., *sC.* C. 22.
Phelps, G. T., *sC.* 77 North Ave.
Phelps, J. S., 3*C.* 16 Oxford.
Phillips, H. C., *G.* M. 36.
Philputt, A. B., *G.* 38 Pearl.
Phinney, W., 1*C.* Wakefield.
Pickering, E. C., *Prof.* and *Director of A. O.* Observatory.
Pickering, W. H., *Asst. in A. O.* 8 Story.
Pierce, E. E., 1*M.* Providence, R. I.
Pierce, V. M., 4*C.* W. 2.
Pillsbury, W. F., 3*C.* H. 19.
Pinckard, C. P., 2*M.* 9 Park Sq.*
Pingree, A. H., 2*C.* Revere St., Jamaica Plain.
Pinkham, W. S., 1*L.* H. 3.
Piper, L. A., 2*C.* 47 Trowbridge.
Platt, E., 4*C.* H. 12.
Platt, W. B., 1*C.* M. 15.
Plummer, F., 4*C.* G. 27.
Plummer, H. L., 4*M.* 188 W. Brookline.*
Plummer, H. M., 4*C.* 896 Main.
Pond, A. D., 2*C.* 17 Dunster.
Pond, C. G., 2*Dn.* 23 Oak.*
Poor, H. O., 2*C.* M. 37.
Pope, A. W., *Clerk in Treasurer's Office,* 50 State.*
Pope, H. T., 4*C.* H'ke 16.
Porter, C. A., 4*C.* Little's 2.
Porter, C. B., *Prof.* 5 Arlington.*
Post, A., *Clin. Instr.* 581 Tremont.*
Post, R. H., 1*C.* 48 Brattle.
Post, W. K., 2*C.* H'ke 34.
Potter, A. C., 3*C.* T. 45.
Potter, G. L., 1*C.* 6 Mt. Auburn.
Potter, R. B., 1*C.* 19 Ware.
Powell, H. J., 1*C.* H'y 5.
Powers, J. O., 1*C.* D. 42.
Pratt, C. A., 2*M.* E. Somerville.
Pratt, E. B., 4*C.* H. 11.
Preble, H., *Asst. Prof,* M. 7.
Presbrey, P. E., 1*L.* 14 Craigie.
Prescott, O., 3*C.* Little's 17.
Priest, G. W., 1*C.* C. 33.
Prindle, J. D., 3*C.* H'y 13.
Proctor, F. I., 1*M.* 9 Park Sq.*
Proctor, J. H., 3*C.* Little's 18.
Prouty, A. H., 2*M.* Harv. Med. Sch.
Pudor, G.A., 2*M.* 307 Columbus Ave.*
Pulsford, H. A., 4*C.* T. 21.
Pulsifer, G. R., 4*C.* H'y 1.
Pulsifer, L. W., 2*C.* H'y 1.
Putnam, C. R. L., 1*C.* W. 38.
Putnam, F. W., *Prof.* and *Curator of Peabody Museum,* 32 Irving.
Putnam, H. W., *Overseer,* 130 Highland St., Roxbury.
Putnam, J. J., *Instr.* 106 Marlborough.*
Putnam, J. P., 2*C.* 362 Harvard.
Putnam, W. A., 1*M.* 2 Clinton.
Quackenboss, A., 1*M.* 215 W. Canton.*
Quinby, G. T., *G.* 739 Cambridge.
Quincy, H. P., *Instructor,* Dedham.
Rand, W. H., 4*C.* Manter 2.
Randol, W. M., 1*C.* Shepherd 10.
Ransom, P. C., 2*L.* Hilton 33.
Rantoul, A. W., 4*C.* H'y 22.

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Rantoul, C. W., 1*L.* S. 3.
Rantoul, W. G., 3*C.* H'ke 44.
Rapley, E. E., *L.* 717 Cambridge.
Rawson, E. S., 2*C.* Read's 14.
Ray, J. E., 2*M.* 29 Forest.*
Raymond, F. O., 3*C.* T. 48.
Read, T. G., 3*Dn.* 19 W. Cedar.*
Reed, W., 1*C.* 21 Cedar St., Somerville.
Reeves, M., 3*M.* 760 Broadway, So. Boston.
Reisner, G. A., 3*C.* C. 37.
Remington, F. D., 3*M.* Lawrence.
Reynolds, E., *Asst.* 15 Charles.*
Reynolds, F. J., *sC.* W. 31.
Reynolds, J. E., 4*C.* Manter 2.
Reynolds, P. M., 3*C.* Shepherd 9.
Rhinelander, P. M., 1*C.* Beck 1.
Rhinelander, T. N., 1*L.* Beck 1.
Riale, F. N., *Dv.* D. 37.
Rice, H. N., 1*C.* H'y 14.
Rice, J. W., 1*C.* Shepherd 7.
Rich, H., 1*C.* 96 Prescott.
Richards, G. J., 4*C.* T. 50.
Richards, H. M., *sC.* 27 Ellery.
Richards, T. W., *G.* 27 Ellery.
Richards, W. F., 3*C.* T. 39.
Richardson, C. F., 2*L.* H'ke 13.
Richardson, G. M., *Inst.* 104 Mt. Auburn.
Richardson, J. C. H., 1*C.* 24 Holyoke.
Richardson, M. H., *Asst. Prof.* 66 Beacon.*
Richardson, M. W., 3*C.* H'ke 13.
Richardson, R. W., *sC.* H. 22.
Richardson, W. L., *Prof.* 225 Commonwealth Ave.*
Richmond, S. C., 2*C.* 60 Mt. Auburn.
Rideout, E. E., 1*L.* 12 Plympton.
Ritchie, J., *Asst. in A. O.* 43 Chester Sq.*
Roberts, O. B., 2*C.* C. 60.
Robinson, D. P. 2*C.* G. 25.
Robinson, F. N., 1*C.* G. 6.
Robinson, J. Harvey, *G.* 35 Milford.*
Robinson, J. Henry, 4*C.* 710 Cambridge.
Robinson, R. R. 3*M.* 113 Warren St., Roxbury.
Robinson, T. J., 1*M.* E. Taunton.
Robinson, W. S., *G.* S. 15.
Rodemann, G. R., *G.* 46 Mt. Auburn.
Rogers, A. E., 2*M.* 1738 Washington.*
Rogers, B., 1*M.* Winchester.
Rogers, C. B., 4*C.* Hilton 16.
Rogers, E. F., 2*C.* H'y 14.
Rogers, F. S., 1*C.* Hilton 17.
Rolfe, C. J., 4*C.* W. 31.
Rolfe, E., 1*Dn.* 152 W. Newton.*
Rolfe, W. A., 1*M.* 152 W. Newton.*
Rollins, A. H., 2*C.* 88 North Ave.
Roots, L. H., 1*C.* 55 Pinckney.*
Ropes, J. H., 3*C.* T. 39.
Ropes, W., 4*C.* Hilton 34.
Rose, W. K., 2*C.* Felton 25.
Ross, H. P., *sC.* Lawrence 2.
Rotch, T. M., *Instructor*, 197 Commonwealth Ave.*
Rothschild, V. S., *sC.* 20 Prescott.
Rounds, A. C., 1*L.* 14 Mellen.
Rourke, J. E., 2*C.* 26 Holyoke.
Rowell, W. E., 1*L.* 34 Wendell.
Royal, H. W., 2*C.* C. 23.
Royce, J., *Asst. Prof.* 20 Lowell.
Rublee, G., 2*C.* T. 36.
Ruel, G. G., 2*L.* 64 Buckingham.
Ruggles, N. J., *sC.* Felton 9.
Ruland, I. A., 3*C.* H. 8.
Runkle, H. L., 2*C.* 366 Harvard.
Rusch, H. A., 1*C.* H'y 5.
Russell, H. L., 3*C.* C. 42.
Russell, W. E., 2*L.* 16 Ash.
Russell, W. G., *Overseer*, 178 Beacon.*
Rust, P. S., 1*L.* 880 Main.
Sabine, B. D., 2*C.* Shepherd 2.
Sabine, W. C., *G.* 10 Dana.
Salisbury, W. R., 3*C.* H. 17.
Saltonstall, L., *Overseer*, Chestnut Hill.
Saltonstall, P. L., *sC.* 9 Linden.
Sampson, H. W., 4*C.* Little's 22.
Sampson, R. de W., 1*L.* Little's 22.
Sanderson, R., *Instr.* 46 Concord Ave.
Sands, B. J., 2*C.* M. 13.
Sanford, E. T., 2*L.* Hilton 4.
Sanford, H. S., 4*C.* Beck 31.
Sanford, S., 2*C.* 17 Dunster.
Santayana, G., *G.* Berlin, Germ.
Sargent, A. N., 2*C.* H. 24.
Sargent, C. S., *Prof.* and *Director of Arboretum*, Brookline.
Sargent, D. A., *Asst. Prof.* and *Director of Gymn.* 24 Arrow.
Sargent, J. O., *Overseer*, 28 E. 35th St., New York.

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Saunders, A. C., 3*C.* 169 Cambridge.
Saunders, C. R., 3*L.* H. 23.
Saunderson, C. B., 4*C.* T. 38.
Savage, G. H., 1*C.* 4 Divinity Ave.
Savary, E. H., 4*C.* G. 7.
Saville, C. M., 3*C.* Felton 3.
Saville, H. M., 1*C.* 57 Shepard.
Saville, S. C., 1*C.* 57 Shepard.
Sawin, G. W., *Instructor*, S. 7.
Sawyer, H. E., 1*C.*
37 Gates St., So. Boston.
Sawyer, W. F., *sC.* C. 29.
Saxe, J. A., 4*C.* 20 Prescott.
Saxe, J. W., 4*C.* 20 Prescott.
Schaake, F. H., 4*M.* 61 Clarendon.*
Schermerhorn, B. T., 4*C.* W. 13.
Schofield, H., 1*L.* H. 13.
Schofield, W., *Instr.* 688 Main.
Schroll, C. E., 2*L.* 13 Kirkland Pl.
Schulte, G. B., *sC.* M. 58.
Scott, H. E., *Proctor*, W. 7.
Scott, J. B., 2*C.* 29 Baldwin.
Searle, A., *Asst. Prof.*
41 Concord Ave.
Sears, F. P., 1*C.* Manter 6.
Sears, H. F., *M.* 86 Beacon.*
Sears, H. M., 3*C.* Beck 32.
Sears, J. H., 2*C.* T. 5.
Sears, P. S., 3*C.* Beck 32.
Sears, R., *sC.* Manter 6.
Sears, W. R., 1*C.* 100 Pinckney.*
Seaver, E. P., *Overseer*,
Newton Highlands.
Sedgwick, J. H., 3*C.* W. 23.
Seeley, E. A., 2*C.* 6 Story.
Seelye, R. H., 2*M.* 193 W. Canton.*
Seelye, T. T., 4*C.* 5 Linden.
Seip, J. M., 4*C* S. 13.
Sempers, C. T., 4*C.* 46 Mt. Auburn.
Setchell, W. A., *G.* D. 4.
Sever, F. W., 1*C.* 12 Frisbie Pl.
Seymour, A. B., *Asst.* 12 Farwell Pl.
Shahan, J. M., 4*C.* 23 Irving.
Shaler, N. S., *Prof.* 25 Quincy.
Shattuck, C. E., 1*L.* G. 22.
Shattuck, E. L., *Demonstr.*
Dental School, No. Grove.*
Shattuck, F. C., *Instr.*
135 Marlborough.*
Shattuck, G. B., *Instr.*
24 Marlborough.*
Shattuck, G. H., 3*C.* Hilton 37.
Shattuck, G. O., *Overseer*,
166 Beacon.*
Shaw, H. A., 2*M.* 283 Columbus Ave.*
Shaw, Q. A., 1*C.* Little's 4.
Shay, T. M., 2*M.* Harv. Med. Sch.
Shea, D. W., *G.* 15 Sumner.
Sheffield, J. P., 2*C.* M. 58.
Sheffield, J. R., 1*L.* 746 Cambridge.
Sheldon, E. S., *Asst. Prof.*
27 Hurlbut.
Sheldon, F. P., 3*C.* M. 56.
Shepard, C. H., 2*Dn.* 23 Pinckney.*
Shepard, H. T., 4*C.* 138 Mt. Auburn.
Shepard, T. O., 4*C.* Manter 3.
Shippen, E. R., 1*Dv.* D. 21.
Shirasu, B., *sC.* 138 Mt. Auburn.
Shoemaker, E. E., 3*C.* C. 37.
Shoninger, F., 4*C.* 215 W. Newton.*
Simes, R. F., 3*L.* 10 Appian Way.
Simmons, C. L., 2*L.* Baldwinsville.
Simons, M. O., *sC.* 16 Mellen.
Simpkins, A. T., 4*C.* W. 17.
Simpson, J. E., 1*M.*
258 E. Eagle St., E. Boston.
Sinnott, C. P., *sS.* West Somerville.
Slack, Miss F. M., *Libr. at M. Z.*
25 Elm.
Slade, D. D., *Lect.* Chestnut Hill.
Slade, J. H., 1*C.* T. 58.
Slattery, C. H., 3*C.* H. 4.
Slattery, C. L., 1*C.* Lawrence 4.
Slattery, J. R., 2*M.*
176 7th St., So. Boston.
Slocum, T. W., 2*C.* Read's 8.
Sloss, M. C., 2*C.* M. 31.
Small, H., 1*C.* T. 40.
Smalley, P., 1*L.* 53 Oxford.
Smith, A. D., 2*M.* 143 Boylston,*
Smith, C., 4*C.* T. 53.
Smith, C. C., 1*C.* G. 30.
Smith, C. G., 1*L.* H. 31.
Smith, C. L., *Prof.* and
Dean of Coll. Fac.
Smith, Charles W., 1*C.* C. 24.
Smith, Clifford W., 2*C.* Hilton 14.
Smith, D. L., 4*C.* H. 18.
Smith, E. C., *Proctor* (also 3*Dv.*)
D. 15.
Smith, E. I., 2*L.* C. 57.
Smith, E. S., 2*M.* 132 Chandler.*
Smith, F. A., 1*C.* 96 Prescott.
Smith, F. B., 1*L.* 12 Story.
Smith, J. H., *sC.* G. 3.
Smith, J. M., 3*C.* Hilton 29.
Smith, J. R., 3*C.* H. 24.
Smith, O., 2*L.* 39 Brattle.

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SMITH, R. D., *Overseer*, 48 Mt. Vernon.*
Smith, S. H., 2*L.* Arlington.
Smith, W. L., 2*M.* 6 Beacon.*
Snow, A. E., 1*L.* 67 Mt. Auburn.
Snow, D. K., 2*C.* Little's 24.
SNOW, F., *Instructor*, Shepherd 1.
Snow, W., 1*M.* 19 St. James Ave.*
Snow, W. B., *G.* Stoneham.
Snyder, E. N., *G.* Berlin, Germ.
Snyder, W. H., *G.* C. 62.
Sondheim, E., *G.* 712 Cambridge.
Soule, A. M. M., 3 *V.* Hyde Park.
Soule, W., 1 *V.* 24 Appleton.*
Souther, H. A., 1 *V.* 691 Adams St., Dorchester.
Southwick, W. H., *sL.* W. Peabody.
Spalding, E. W., 4*C.* C. 68.
Spalding, W. R., *G.* 13 Follen.
Spaulding, W. S., 4*C.* Beck 41.
Spencer, C. W., 2*C.* 19 Garfield St.
Stanard, A. C., 3*M.* 381 Columbus Ave.*
STANTON, J. E., *Instr.* 132 Boylston.*
Stead, T. J., 1*C.* Felton 1.
Stearns, C. E., 1*C.* 15 Appian Way.
Stearns, W. B., 2*C.* T. 44.
Stebbins, F. S., 2*C.* C. 23.
Stebbins, P. S., *sC.* C. 46.
Stedman, L. B., 1*L.* W. 53.
Stegman, H. M., *sC.* C. 33.
Stephens, C. G. H., 2*L.* 736 Cambridge.
Sterne, W. C., 1*C.* 746 Cambridge.
Stetson, F. D., 4*C.* H'y 15.
Stetson, J. A., 1*C.* 20 Holyoke.
Stevens, E. M., 1*L.* 18 Story.
Stevens, G., 2*C.* H'y 6.
Stevens, H. W., 3*C.* S. 6.
Stevens, J. F., 1*M.* 21 Columbia.
Stevenson, B. C., *sC.* 404 Harvard.
Stevenson, F. A., 2*Dn.* 86 Kirkland.
Stewart, F. A., 3*M.* 13 Boylston Pl.*
Stewart, P. C., 1*C.* 11 Appian Way.
Stickney, E. P., 1*M.* 6 Dexter Row, Charlestown.
Stickney, W., 1*C.* 25 Holyoke.
Stockton, L. M., 1*C.* 25 Holyoke.
Stokes, I. N. P., 1*C.* H'ke 27.
Stone, C. H., *sC.* Felton 5.
Stone, G. A., 3*M.* Ipswich.
Stone, G. H., 1*C.* 100 Mt. Auburn.
Stone, J. S., 3*C.* W. 27.
Stone, W. A., *G.* 48 Shepard.
Stone, W. F., 3*C.*
STORER, F. H., *Prof.* and *Dean of Bussey Inst.* 182 Boylston.*
STORER, J. H., *Curator of Coins*, 6 Mt. Vernon Pl.*
Storer, M., 3*M.* 182 Boylston.*
STOREY, M., *Overseer*, Brookline.
Storrow, E. C., 3*C.* Little's 8.
Storrow, J. J., 3*L.* 10 Appian Way.
Stowell, E. C., 4*C.* T. 14.
Strader, D. J., 2*L.* 45 Trowbridge.
Straw, A. G., 1*M.* 29 Union Pk.*
STRONG, C. P., *Asst.* 1 Exeter.*
Strong, C. H., *sL.* 12 Kirkland Pl.
Strong, H. P., 3*C.* 746 Cambridge.
Strong, J. H., 1*M.* 329 Paris St., E. Boston.
Strout, H. F., 2*C.* H'ke 11.
Stults, J. D., 1*C.* T. 51.
Sturgis, E., 2*C.* M. 47.
Sturgis, S. W., 2*C.* M. 47.
Sturgis, W. C., *G.* 14 Mt. Vernon.*
Sublett, T. F., 1*L.* 5 Elmer.
Sullivan, J. F. 1*M.* 21 Harvard St., Charlestown.
Sullivan, J. H., 1*M.* 42 Mt. Auburn.
SULLIVAN, J. J., *Steward Dining Hall*, 120 Prospect.
Sullivan, L., 4*C.* Little's 23.
Sumner, J. O., *G.* W. 28.
Sumrall, W. L., *G.* 13 Kirkland Pl.
Surbridge, R. C., 3*C.* H'ke 45.
Sutro, A., 1*C.* 25 Holyoke.
Swain, H., 4*C.* G. 49.
Swan, C. L., 1*C.* Felton 4.
Swan, W. H., 1*M.* 15 Worcester Sq.*
Swarts, J. N., 1*L.* 53 Oxford.
Swarts, S. L., 4*C.* W. 12.
Swasey, G. O., 2*C.* W. 54.
Sweeney, A., *sC.* 7 Linden.
Sweeney, H. T., 2*M.* 237 Webster St., East Boston.
Swett, E. B., 2*M.* West Medford.
Swinburne, S. F., 2*C.* C. 3.
Swope, F. D., 2*L.* 713 Cambridge.
Tailer, T. S., 3*C.* Hilton 40.
Talbot, T., 2*C.* Hilton 21.
Tallant, H., 1*C.* C. 84.
Tarr, R. S., *sS.* H. 14.
Tateum, F. T., 1*M.* Harv. Med. Sch.
Taussig, A. E., 1*C.* M. 46.
TAUSSIG, F. W., *Asst. Prof.* H'y 20.
Taylor, C. H., 2*C.* H'ke 14.
Taylor, E. W., 4*C.* G. 16.

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Taylor, H. B., 3*C.* T. 24.
Taylor, J. T., 1*M.* Brookline.
Taylor, K. M., 2*C.* 25 Holyoke.
Taylor, M. A., 3*C.* H'y 19.
Tevis, J., *sC.* C. 33.
THAXTER, R., *Asst.* 19 Ware.
Thayer, A. C., 1*L.* T. 50.
Thayer, A. S., *M.*
McLean Asylum, Somerville.
Thayer, C. M., 3*C.* 20 Prescott.
Thayer, E. R., 4*C.* G. 51.
Thayer, F. W., 3*C.* C. 31.
THAYER, J. B., *Prof.* 5 Phillips Pl.
THAYER, J. H., *Prof.* 67 Sparks.
Thayer, L. S., 4*C.* S. 28.
Thayer, W. D., 2*M.* Harv. Med. Sch.
Thayer, W. H., 3*C.* 410 Harvard.
Thayer, W. S., 3*M.* 5 Phillips Pl.
Thomas, F. C., *sL.* Felton 23.
Thomas, J. J., 2*M.* Harv. Med. Sch.
Thomas, J. R., 1*C.* 96 Prescott.
Thomas, J. W., *sC.* 2 Butler Court.
Thompson, F., 3*M.* Salem.
Thompson, J. M., 2*M.*
1330 Washington.*
Thompson, W. G., 4*C.*
62 Buckingham.
Thompson, W. H., 1*L.* 46 Langdon.
Thomson, E. S., *sC.* M. 30.
Thorndike, H. H., 2*C.* Beck 25.
Thorndike, S. H., 2*C.* W. 3.
Tigh, F., 2*M.*
Rockview St., Jamaica Plain.
TILLINGHAST W. H. *Asst. in Library,* 353 Harvard.
Tilton, B. T., 2*C.* 739 Cambridge.
Tilton, E. J., 3*M.* 99 Pinckney.*
Tilton, W. F., 2*C.* 739 Cambridge.
Titcomb, C. B., 3*Dn.* 25 Hancock.*
Titus, H. A., 2*C.* 6 Felton St.
Titus, H. F., 1*M.* Newton.
Tobin, J. J., 2*C.* C. 15.
Tooker, J. S., *sL.* Beck 44.
Torrey, D. C., 2*C.* C..64.
TORREY, H. W., *Prof. Em.* 20 Oxford.
TOWER, C., *Overseer,*
1525 Spruce St., Philadelphia.
Towle, H. P., 4*C.* H. 31.
TOWNSEND, C. W., *Asst.* 61 Chestnut.*
Townsend, R. E., 3*C.* Shepherd 6.
TOY, C. H., *Prof.*
Trafford, P. D., 3*C.* M. 5.
Trail, A., 3*C.* W. 45.
Trask, W. R., 3*L.* 10 Appian Way.
Treviño, D., 2*M.* 67 Dartmouth.*
Treviño, M. F., 4*M.* 67 Dartmouth.*
TROWBRIDGE, J., *Prof.* Linnaean St.
Trull, E. W., 4*C.* H'y 2.
Tudor, F., 1*C.* T. 11.
Turner, W. M., 1*C.* Felton 2.
Turnure, G. E., 2*C.* Beck 2.
Turnure, R., 3*C.* Beck 2.
Tuthill, J. B. T., *G.* G. 13.
Tuttle, G. H., 1*M.* 129 Dartmouth.*
Twitchell, F. E., 3*Dn.* Nashua, N.H.
Tyson, A. M., 2*C.* G. 4.
Tyson, G., 1*C.* 52 Brattle.
Tyson, R., 2*C.* Little's 5.
Ullrich, G. E. W., 4*C.* H'y 15.
Underhill, C. D., 2*M.* Chelsea.
Underwood, F. H., *G.* Allston.
Urie, J. F., 3*M.* 30 Hancock.*
Utley, E. R., 3*M.* Newton.
Valentine, E. A., *sC.* 746 Cambridge.
Vallé, P. B., 1*C.* Felton 13.
VAN CLEEF, F. L., *Proctor,* G. 5.
Van Deman, R. H., 4*C.* 366 Harvard.
Vaughan, H. G., 2*C.* H'y 6.
VICKERY, H. F., *Asst.* 37 Hancock.*
Vila, J., *sL.* Shepherd 4.
Villard, H. G., 2*C.* 739 Cambridge.
Vingut, G. F., *sL.* Read's 20.
Vingut, H. K., *sL.* 896 Main.
Vorse, A. W., 3*C.* T. 45.
Wadham, J. E., *sL.* 10 Frisbie Pl.
WADSWORTH, O. F., *Clin. Instructor,* 139 Boylston.*
Wadsworth, W. S., *sS.* D. 39.
Wainwright, R., 1*C.* Little's 31.
Wait, C. A., 3*C.* 13 Kirkland Pl.
WAIT, J. C., *Instr.* Cor. Orchard and Russell Sts., W. Somerville.
WAITT, J. E., *Demonstr.*
422 Columbus Ave.*
Walcott, A. S., 1*C.* 10 Remington.
WALCOTT, H. P., *Overseer,*
11 Waterhouse.
Walden, J. W. H., 4*C.* 13 Mt. Aub'n.
Walker, B. A., 2*C.* M. 60.
Walker, C. H., 2*C.* M. 28.
Walker, J., 1*L.* 54 Garden.
Walker, J. H., *sC.* C. 49.
Walker, L. M., 1*M.* 16 Concord Sq.*
Walker, R. T., 2*C.* H'y 4.
Walsh, R. V. DeW., 2*C.* T. 19.
Walter, C. R., 1*C.* 739 Cambridge.
WALTON, G. L., *Clin. Instr.*
6 Beacon.*

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WARD, D. J. H., *Libr. of Dv.* 12 Ash St. Pl.
Ward, R. De C., 3*C.* Hilton 38.
Wardman, E., 3*C.* M. 56.
Wardner, G. P., 2*C.* H'ke 47.
Wardner, H. S., 3*C.* W. 10.
Wardwell, W. T. S., 3*M.* 72 West Cedar.*
Ware, R. D., 2*C.* 10 Plympton.
Warren, C., 3*C.* G. 11.
Warren, E. R., 3*C.* W. 48.
Warren, H. E., 2*C.* 53 North Ave.
WARREN, J. C., *Assoc. Prof.* 58 Beacon.*
WARREN, J. W., *Inst.* 119 Boylston.*
Warren, W. H., 3*C.* 34½ Shepard.
Washburn, H. B., 1*C.* H'y 22.
Washburn, R. M., 1*C.* H'y 22.
Washburne, E., 1*M.* Taunton.
Waterman, G. W., 3*C.* D. 23.
Waterman, J. A., 2*L.* Francis Ave.
WATSON, B. M., *Instr.* Jamaica Plain.
WATSON, S., *Curator of Herb.* Botanic Garden.
Watts, S. H., 2*C.* 12 Oxford.
Waughop, P. R., 2*C.* H'ke 6.
Weaver, B., 3*C.* Hilton 24.
Webster, A. G., *G.* Berlin, Germ.
Webster, H., *G.* Little's 6.
Weed, F. D., 2*C.* W. 37.
Weeks, R. L., 1*C.* 74 Sacramento.
WEINSCHENK, G., *Printer*, 1 Revere.
Welch, E. A., 3*M.* Worcester.
Welch, E. J., 1*M.* 80 Worcester.*
Welch, E. M., *sL.* 715 Cambridge.
Weld, A. R., 1*C.* 25 Holyoke.
Weld, A. W., 1*C.* M. 19.
Weld, B. C., 3*C.* Little's 17.
WELD, F. M., *Overseer*, 28 W. 20th St., New York.
Weld, R. H., 2*C.* Little's 5.
Wells, S., 1*C.* M. 41.
Wells, S. G., 2*L.* M. 41.
Wells, W., 2*C.* 5 Bigelow.
WENDELL, B., *Instructor*, G. 18.
Wendell, J., 1*C.* 9 Linden.
WENDELL, O. C., *Asst. in A. O.* 18 Saville.
Wengren, E. L., 3*C.* M. 27.
Wentworth, A. H., 3*M.* 43 Concord Sq.*
Wentworth, C. E., 1*C.* 56 North Av.
Wentworth, G., 2*C.* 866 Main.
Wenzlick, W., 3*M.* 9 Hancock.*
West, G. L., 2*C.* C. 66.
West, M. S., 1*C.* G. 40.
Weston-Smith, R. D., *sL.* 48 Mt. Vernon.*
Wetmore, C. D., 3*C.* Manter 1.
Wetzel, E. J., 2*Dn.* 411 Col'bus Av.*
Weysse, A. W., 1*C.* 22 Mt. Auburn.
Wheaton, R. A., 2*M.* 525 Columbus Ave.*
Wheeler, C., 1*C.* Beck 7.
Wheelwright, G. W., 2*C.* 16 Winthrop.
Whipple, F. H., 4*C.* S. 5.
WHITE, C. J., *Registrar and acting Dean of Coll. Fac.* W. 36.
White, C. J., 2*C.* Little's 9.
WHITE, G. R., *Asst.* H'ke 20.
White, H. R., 3*C.* C. 16.
WHITE, J. C., *Prof.* 259 Marlboro'.*
White, J. R., 1*Dn.* 58 Howard.
WHITE, J. W., *Prof.* 18 Concord Av.
White, S. F., *sL.* 104 Windsor.
Whitehouse, R. T., 1*C.* 746 Cambridge.
Whitelaw, E. A., 2*L.* C. 50.
Whiting, A. B., 1*C.* Read's 18.
Whiting, C. A., 1*C.* 18 Prescott.
WHITING, H., *Instructor*, 3 Garden.
Whitman, H. A., *Dv.* 727 Cambridge.
Whitmarsh, W. F., 1*M.* N. Abington.
Whitney, E. L., *G.*, 5 St. Charles.*
WHITNEY, J. D., *Prof.* 2 Divinity Ave.
Whitney, J. E., 3*C.* H'y 12.
Whitney, W. B., 1*L.* 14 Mellen.
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Wiley, F. B., *sC.* 15 Sumner.
Wilkinson, H. S., 1*C.* H'ke 41.

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Williams, A. H., 1*C.* 18 Berkeley.
Williams, E. P., 1*C.* W. 49.
Williams, F. Backus, 4*C.* H'ke 12.
Williams, F. Beverly, 4*C.* H. 32.
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Wood, H., *sC.* Shepherd 8.
Wood, J. W., 4*C.* Hilton 27.
Wood, R. W., 1*C.* T. 66.
Woodbury, T., 3*C.* 9 Linden.
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Woods, C. H., *sL.* 11 Antrim.
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Woods, T. S., 2*C.* 26 Holyoke.
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Wright, G. E., 3*C.* 15 Sumner.
Wright, J. H., *Prof.* 14 Avon.
Wynne, S. Y., *sC.* 36 Irving.
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